

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	GENNAIO	01
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
01 00	100 09.1	179 13.8	S 23 03.5	219 12.0	S 18 46.2	193 05.8	S 23 57.7	66 27.9	N 12 15.8	124 22.4	S 11 50.3	301 02.0	N 12 37.6	54.2	NOME	360 - AR	Dec.	
01 01	115 11.5	194 13.5	S 23 03.3	234 11.4	S 18 46.8	208 06.2	S 23 57.7	81 30.4	N 12 15.9	139 24.6	S 11 50.3	315 37.0	N 12 24.9	54.2	Acamar	315 12.1	S 40 12.7	
02 02	130 14.0	209 13.2	S 23 03.1	249 10.7	S 18 47.5	223 06.7	S 23 57.8	96 32.9	N 12 15.9	154 26.9	S 11 50.2	330 12.2	N 12 12.1	54.2	Achernar	335 20.6	S 57 07.2	
03 03	145 16.5	224 12.9	S 23 02.9	264 10.0	S 18 48.1	238 07.1	S 23 57.9	111 35.3	N 12 15.9	169 29.1	S 11 50.1	344 47.3	N 11 59.3	54.2	AcruX	173 01.1	S 63 13.6	
04 04	160 18.9	239 12.6	S 23 02.7	279 09.4	S 18 48.8	253 07.6	S 23 57.9	126 37.8	N 12 15.9	184 31.4	S 11 50.0	359 22.6	N 11 46.5	54.2	Adhara	255 06.1	S 29 00.2	
05 05	175 21.4	254 12.3	S 23 02.5	294 08.7	S 18 49.4	268 08.0	S 23 58.0	141 40.2	N 12 15.9	199 33.6	S 11 49.9	313 57.8	N 11 33.6	54.2	Aldebaran	290 40.3	N 16 33.5	
06 06	190 23.9	269 12.0	S 23 02.3	309 08.0	S 18 50.1	283 08.4	S 23 58.0	156 42.7	N 12 15.9	214 35.9	S 11 49.8	28 33.1	N 11 20.6	54.2				
07 07	205 26.3	284 11.7	S 23 02.1	324 07.3	S 18 50.8	298 08.9	S 23 58.1	171 45.2	N 12 15.9	229 38.2	S 11 49.8	43 08.5	N 11 07.6	54.2	Alioth	166 13.7	N 55 49.5	
08 08	220 28.8	299 11.4	S 23 01.9	339 06.7	S 18 51.4	313 09.3	S 23 58.2	186 47.6	N 12 16.0	244 40.4	S 11 49.7	57 43.9	N 10 54.6	54.2	Alkaid	152 52.8	N 49 11.4	
09 09	235 31.3	314 11.2	S 23 01.7	354 06.0	S 18 52.1	328 09.7	S 23 58.2	201 50.1	N 12 16.0	259 42.7	S 11 49.6	72 19.4	N 10 41.6	54.2	Alnair	27 34.3	S 46 50.9	
10 10	250 33.7	329 10.9	S 23 01.5	9 05.3	S 18 52.7	343 10.2	S 23 58.3	216 52.5	N 12 16.0	274 44.9	S 11 49.5	86 54.9	N 10 28.5	54.2	Alnilam	275 38.3	S 1 11.2	
11 11	265 36.2	344 10.6	S 23 01.3	24 04.6	S 18 53.4	358 10.6	S 23 58.3	231 55.0	N 12 16.0	289 47.2	S 11 49.4	101 30.4	N 10 15.4	54.2	Alphard	217 48.3	S 8 45.7	
12 12	280 38.6	359 10.3	S 23 01.1	39 04.0	S 18 54.0	13 11.0	S 23 58.4	246 57.5	N 12 16.0	304 49.4	S 11 49.3	116 06.0	N 10 02.2	54.2				
13 13	295 41.1	14 10.0	S 23 00.9	54 03.3	S 18 54.7	28 11.5	S 23 58.5	261 59.9	N 12 16.0	319 51.7	S 11 49.3	130 41.6	N 9 49.0	54.2	Alphecca	126 04.7	N 26 37.9	
14 14	310 43.6	29 09.7	S 23 00.7	69 02.6	S 18 55.3	43 11.9	S 23 58.5	277 02.4	N 12 16.1	334 53.9	S 11 49.2	145 17.2	N 9 35.8	54.2	Alpheratz	357 35.7	N 29 13.5	
15 15	325 46.0	44 09.4	S 23 00.5	84 01.9	S 18 56.0	58 12.3	S 23 58.6	292 04.8	N 12 16.1	349 56.2	S 11 49.1	159 52.9	N 9 22.5	54.2	Altair	62 01.1	N 8 55.9	
16 16	340 48.5	59 09.1	S 23 00.3	99 01.3	S 18 56.6	73 12.8	S 23 58.6	307 07.3	N 12 16.1	4 58.4	S 11 49.0	174 28.7	N 9 09.2	54.2	Ankaa	353 08.0	S 42 10.8	
17 17	355 51.0	74 08.8	S 23 00.1	114 00.6	S 18 57.3	88 13.2	S 23 58.7	322 09.7	N 12 16.1	20 00.7	S 11 48.9	189 04.4	N 8 55.9	54.2	Antares	112 17.2	S 26 29.0	
18 18	10 53.4	89 08.5	S 22 59.9	128 59.9	S 18 57.9	103 13.7	S 23 58.7	337 12.2	N 12 16.1	35 02.9	S 11 48.8	203 40.2	N 8 42.5	54.2				
19 19	25 55.9	104 08.2	S 22 59.7	143 59.2	S 18 58.5	118 14.1	S 23 58.8	352 14.6	N 12 16.1	50 05.2	S 11 48.8	218 16.1	N 8 29.1	54.2	Arcturus	145 48.8	N 19 03.3	
20 20	40 58.4	119 07.9	S 22 59.5	158 58.6	S 18 59.2	133 14.5	S 23 58.8	7 17.1	N 12 16.2	65 07.4	S 11 48.7	232 51.9	N 8 15.7	54.2	Atria	107 12.7	S 69 04.1	
21 21	56 00.8	134 07.6	S 22 59.3	173 57.9	S 18 59.8	148 15.0	S 23 58.9	22 19.5	N 12 16.2	80 09.7	S 11 48.6	247 27.8	N 8 02.2	54.2	Avior	234 14.5	S 59 35.0	
22 22	71 03.3	149 07.3	S 22 59.1	188 57.2	S 19 00.5	163 15.4	S 23 58.9	37 22.0	N 12 16.2	95 12.0	S 11 48.5	262 03.7	N 7 48.8	54.2	Bellatrix	278 23.5	N 6 22.3	
23 23	86 05.7	164 07.0	S 22 58.9	203 56.5	S 19 01.1	178 15.8	S 23 59.0	52 24.5	N 12 16.2	110 14.2	S 11 48.4	276 39.7	N 7 35.2	54.2	Betelgeuse	270 52.7	N 7 24.7	
02 00	101 08.2	179 06.7	S 22 58.7	218 55.8	S 19 01.8	193 16.3	S 23 59.1	67 26.9	N 12 16.2	125 16.5	S 11 48.3	291 15.7	N 7 21.7	54.2	Canopus	263 52.2	S 52 42.5	
01 01	116 10.7	194 06.4	S 22 58.5	233 55.2	S 19 02.4	208 16.7	S 23 59.1	82 29.4	N 12 16.2	140 18.7	S 11 48.3	305 51.7	N 7 08.2	54.2	Capella	280 22.7	N 46 01.4	
02 02	131 13.1	209 06.1	S 22 58.2	248 54.5	S 19 03.0	223 17.1	S 23 59.2	97 31.8	N 12 16.3	155 21.0	S 11 48.2	320 27.7	N 6 54.6	54.2	Castor	245 57.8	N 31 50.1	
03 03	146 15.6	224 05.9	S 22 58.0	263 53.8	S 19 03.7	238 17.6	S 23 59.2	112 34.3	N 12 16.3	170 23.2	S 11 48.1	335 03.9	N 6 41.0	54.2	Deneb	49 26.8	N 45 22.0	
04 04	161 18.1	239 05.6	S 22 57.8	278 53.1	S 19 04.3	253 18.0	S 23 59.3	127 36.7	N 12 16.3	185 25.5	S 11 48.0	349 39.8	N 6 27.3	54.2	Denebola	182 25.7	N 14 26.2	
05 05	176 20.5	254 05.3	S 22 57.6	293 52.4	S 19 04.9	268 18.4	S 23 59.3	142 39.2	N 12 16.3	200 27.7	S 11 47.9	4 16.0	N 6 13.7	54.2				
06 06	191 23.0	269 05.0	S 22 57.4	308 51.7	S 19 05.6	283 18.9	S 23 59.4	157 41.6	N 12 16.3	215 30.0	S 11 47.8	18 52.1	N 6 00.0	54.2	Diphda	348 48.1	S 17 51.5	
07 07	206 25.5	284 04.7	S 22 57.2	323 51.1	S 19 06.2	298 19.3	S 23 59.4	172 44.1	N 12 16.4	230 32.2	S 11 47.7	33 28.2	N 5 46.3	54.2	Dubhe	193 41.7	N 61 37.0	
08 08	221 27.9	299 04.4	S 22 57.0	338 50.4	S 19 06.8	313 19.7	S 23 59.5	187 46.5	N 12 16.4	245 34.5	S 11 47.7	48 04.4	N 5 32.6	54.2	Elnath	278 02.6	N 28 37.7	
09 09	236 30.4	314 04.1	S 22 56.7	353 49.7	S 19 07.5	328 20.2	S 23 59.5	202 49.0	N 12 16.4	260 36.7	S 11 47.6	62 40.6	N 5 18.8	54.2	Etamin	90 43.1	N 51 29.0	
10 10	251 32.9	329 03.8	S 22 56.5	8 49.0	S 19 08.1	343 20.6	S 23 59.5	217 51.4	N 12 16.4	275 39.0	S 11 47.5	77 16.8	N 5 05.0	54.2	Enif	33 39.9	N 9 59.1	
11 11	266 35.3	344 03.5	S 22 56.3	23 48.3	S 19 08.7	358 21.0	S 23 59.6	232 53.9	N 12 16.4	290 41.2	S 11 47.4	91 53.0	N 4 51.2	54.2				
12 12	281 37.8	359 03.2	S 22 56.1	38 47.6	S 19 09.4	13 21.5	S 23 59.6	247 56.3	N 12 16.4	305 43.5	S 11 47.3	106 29.2	N 4 37.4	54.2	Fomalhaut	15 15.6	S 29 29.9	
13 13	296 40.2	14 02.9	S 22 55.9	53 46.9	S 19 10.0	28 21.9	S 23 59.7	262 58.8	N 12 16.5	320 45.7	S 11 47.2	121 05.4	N 4 23.6	54.2	Gacrux	171 52.6	S 57 14.5	
14 14	311 42.7	29 02.6	S 22 55.6	68 46.2	S 19 10.6	43 22.3	S 23 59.7	278 01.2	N 12 16.5	335 48.0	S 11 47.2	135 41.7	N 4 09.8	54.2	Gienah	175 44.4	S 17 40.4	
15 15	326 45.2	44 02.3	S 22 55.4	83 45.6	S 19 11.3	58 22.8	S 23 59.8	293 03.7	N 12 16.5	350 50.2	S 11 47.1	150 17.9	N 3 55.9	54.2	Hadar	148 37.5	S 60 29.0	
16 16	341 47.6	59 02.1	S 22 55.2	98 44.9	S 19 11.9	73 23.2	S 23 59.8	308 06.1	N 12 16.5	5 52.5	S 11 47.0	164 54.2	N 3 42.0	54.2	Hamal	327 52.0	N 23 34.6	
17 17	356 50.1	74 01.8	S 22 55.0	113 44.2	S 19 12.5	88 23.6	S 23 59.9	323 08.6	N 12 16.5	20 54.7	S 11 46.9	179 30.5	N 3 28.1	54.2				
18 18	11 52.6	89 01.5	S 22 54.7	128 43.5	S 19 13.1	103 24.1	S 23 59.9	338 11.0	N 12 16.6	35 57.0	S 11 46.8	194 06.8	N 3 14.2	54.3	Kaus aust.	83 34.0	S 34 22.4	
19 19	26 55.0	104 01.2	S 22 54.5	143 42.8	S 19 13.8	118 24.5	S 24 00.0	353 13.4	N 12 16.6	50 59.2	S 11 46.7	208 43.1	N 3 00.3	54.3	Kochab	137 20.4	N 74 03.1	
20 20	41 57.5	119 00.9	S 22 54.3	158 42.1	S 19 14.4	133 24.9	S 24 00.0	8 15.9	N 12 16.6	66 01.5	S 11 46.7	223 19.4	N 2 46.4	54.3	Markab	13 30.9	N 15 20.1	
21 21	57 00.0	134 00.6	S 22 54.1	173 41.4	S 19 15.0	148 25.3	S 24 00.0	23 18.3	N 12 16.6	81 03.7	S 11 46.6	237 55.7	N 2 32.4	54.3	Menkar	314 06.8	N 4 11.0	
22 22	72 02.4	149 00.3	S 22 53.8	188 40.7	S 19 15.6	163 25.8	S 24 00.1	38 20.8	N 12 16.6	96 06.0	S 11 46.5	252 32.0	N 2 18.5	54.3	Menkent	147 58.8	S 36 29.1	
23 23	87 04.9	164 00.0	S 22 53.6	203 40.0	S 19 16.2	178 26.2	S 24 00.1	53 23.2	N 12 16.7	111 08.2	S 11 46.4	267 08.3	N 2 04.5	54.3				
03 00	102 07.4	178 59.7	S 22 53.4	218 39.3	S 19 16.9	193 26.6	S 24 00.2	68 25.7	N 12 16.7	126 10.5	S 11 46.3	281 44.6	N 1 50.5	54.3	Miaplacidus	221 37.7	S 69 48.7	

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	GENNAIO	04
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
04 00	103 06.5	178 52.8	S 22 47.6	218 22.5	S 19 31.5	193 37.0	S 24 01.0	69 24.2	N 12 17.2	127 04.4	S 11 44.3	272 12.7	S 3 46.9	54.6	NOME	360	- AR	Dec.
01	118 09.0	193 52.5	S 22 47.4	233 21.8	S 19 32.1	208 37.4	S 24 01.1	84 26.7	N 12 17.2	142 06.7	S 11 44.2	286 48.6	S 4 01.0	54.6	Acamar	315 12.2	S 40 12.7	
02	133 11.4	208 52.2	S 22 47.1	248 21.1	S 19 32.7	223 37.8	S 24 01.1	99 29.1	N 12 17.2	157 08.9	S 11 44.1	301 24.5	S 4 15.0	54.7	Achernar	335 20.7	S 57 07.2	
03	148 13.9	223 51.9	S 22 46.9	263 20.4	S 19 33.3	238 38.3	S 24 01.1	114 31.5	N 12 17.3	172 11.2	S 11 44.0	316 00.3	S 4 29.1	54.7	Acruar	173 01.0	S 63 13.6	
04	163 16.3	238 51.7	S 22 46.6	278 19.7	S 19 33.9	253 38.7	S 24 01.2	129 34.0	N 12 17.3	187 13.4	S 11 43.9	330 36.1	S 4 43.1	54.7	Adhara	255 06.1	S 29 00.2	
05	178 18.8	253 51.4	S 22 46.4	293 19.0	S 19 34.5	268 39.1	S 24 01.2	144 36.4	N 12 17.3	202 15.7	S 11 43.8	345 11.9	S 4 57.2	54.7	Aldebaran	290 40.3	N 16 33.5	
06	193 21.3	268 51.1	S 22 46.1	308 18.3	S 19 35.1	283 39.5	S 24 01.2	159 38.8	N 12 17.3	217 17.9	S 11 43.7	359 47.7	S 5 11.2	54.7				
07	208 23.7	283 50.8	S 22 45.9	323 17.6	S 19 35.7	298 40.0	S 24 01.2	174 41.3	N 12 17.4	232 20.2	S 11 43.7	14 23.4	S 5 25.2	54.7	Alioth	166 13.7	N 55 49.5	
08	223 26.2	298 50.5	S 22 45.6	338 16.9	S 19 36.2	313 40.4	S 24 01.3	189 43.7	N 12 17.4	247 22.4	S 11 43.6	28 59.0	S 5 39.2	54.8	Alkaid	152 52.8	N 49 11.4	
09	238 28.7	313 50.2	S 22 45.4	353 16.2	S 19 36.8	328 40.8	S 24 01.3	204 46.1	N 12 17.4	262 24.6	S 11 43.5	43 34.6	S 5 53.2	54.8	Alnair	27 34.3	S 46 50.9	
10	253 31.1	328 49.9	S 22 45.1	8 15.5	S 19 37.4	343 41.2	S 24 01.3	219 48.6	N 12 17.4	277 26.9	S 11 43.4	58 10.2	S 6 07.2	54.8	Alnilam	275 38.3	S 1 11.2	
11	268 33.6	343 49.7	S 22 44.8	23 14.8	S 19 38.0	358 41.7	S 24 01.3	234 51.0	N 12 17.5	292 29.1	S 11 43.3	72 45.8	S 6 21.2	54.8	Alphard	217 48.3	S 8 45.7	
12	283 36.1	358 49.4	S 22 44.6	38 14.0	S 19 38.6	13 42.1	S 24 01.4	249 53.4	N 12 17.5	307 31.4	S 11 43.2	87 21.2	S 6 35.1	54.8				
13	298 38.5	13 49.1	S 22 44.3	53 13.3	S 19 39.2	28 42.5	S 24 01.4	264 55.9	N 12 17.5	322 33.6	S 11 43.1	101 56.7	S 6 49.1	54.9	Alphecca	126 04.7	N 26 37.9	
14	313 41.0	28 48.8	S 22 44.1	68 12.6	S 19 39.8	43 43.0	S 24 01.4	279 58.3	N 12 17.5	337 35.9	S 11 43.0	116 32.1	S 7 03.0	54.9	Alpheratz	357 35.7	N 29 13.5	
15	328 43.5	43 48.5	S 22 43.8	83 11.9	S 19 40.4	58 43.4	S 24 01.4	295 00.7	N 12 17.6	352 38.1	S 11 43.0	131 07.4	S 7 16.9	54.9	Altair	62 01.1	N 8 55.8	
16	343 45.9	58 48.2	S 22 43.5	98 11.2	S 19 40.9	73 43.8	S 24 01.5	310 03.2	N 12 17.6	7 40.4	S 11 42.9	145 42.7	S 7 30.8	54.9	Ankaa	353 08.0	S 42 10.8	
17	358 48.4	73 48.0	S 22 43.3	113 10.5	S 19 41.5	88 44.2	S 24 01.5	325 05.6	N 12 17.6	22 42.6	S 11 42.8	160 18.0	S 7 44.7	54.9	Antares	112 17.2	S 26 29.0	
18	13 50.8	88 47.7	S 22 43.0	128 09.8	S 19 42.1	103 44.7	S 24 01.5	340 08.0	N 12 17.6	37 44.9	S 11 42.7	174 53.2	S 7 58.6	55.0				
19	28 53.3	103 47.4	S 22 42.8	143 09.1	S 19 42.7	118 45.1	S 24 01.5	355 10.5	N 12 17.7	52 47.1	S 11 42.6	189 28.3	S 8 12.4	55.0	Arcturus	145 48.8	N 19 03.3	
20	43 55.8	118 47.1	S 22 42.5	158 08.3	S 19 43.3	133 45.5	S 24 01.6	10 12.9	N 12 17.7	67 49.3	S 11 42.5	204 03.4	S 8 26.2	55.0	Atria	107 12.7	S 69 04.1	
21	58 58.2	133 46.8	S 22 42.2	173 07.6	S 19 43.9	148 45.9	S 24 01.6	25 15.3	N 12 17.7	82 51.6	S 11 42.4	218 38.5	S 8 40.1	55.0	Avior	234 14.5	S 59 35.0	
22	74 00.7	148 46.5	S 22 42.0	188 06.9	S 19 44.4	163 46.4	S 24 01.6	40 17.7	N 12 17.7	97 53.8	S 11 42.4	233 13.5	S 8 53.8	55.1	Bellatrix	278 23.5	N 6 22.3	
23	89 03.2	163 46.3	S 22 41.7	203 06.2	S 19 45.0	178 46.8	S 24 01.6	55 20.2	N 12 17.8	112 56.1	S 11 42.3	247 48.4	S 9 07.6	55.1	Betelgeuse	270 52.7	N 7 24.7	
05 00	104 05.6	178 46.0	S 22 41.4	218 05.5	S 19 45.6	193 47.2	S 24 01.6	70 22.6	N 12 17.8	127 58.3	S 11 42.2	262 23.2	S 9 21.3	55.1	Canopus	263 52.2	S 52 42.5	
01	119 08.1	193 45.7	S 22 41.2	233 04.8	S 19 46.2	208 47.7	S 24 01.7	85 25.0	N 12 17.8	143 00.6	S 11 42.1	276 58.0	S 9 35.1	55.1	Capella	280 22.7	N 46 01.4	
02	134 10.6	208 45.4	S 22 40.9	248 04.0	S 19 46.7	223 48.1	S 24 01.7	100 27.5	N 12 17.8	158 02.8	S 11 42.0	291 32.8	S 9 48.8	55.2	Castor	245 57.7	N 31 50.1	
03	149 13.0	223 45.1	S 22 40.6	263 03.3	S 19 47.3	238 48.5	S 24 01.7	115 29.9	N 12 17.9	173 05.1	S 11 41.9	306 07.4	S 10 02.4	55.2	Deneb	49 26.8	N 45 22.0	
04	164 15.5	238 44.8	S 22 40.3	278 02.6	S 19 47.9	253 48.9	S 24 01.7	130 32.3	N 12 17.9	188 07.3	S 11 41.8	320 42.1	S 10 16.1	55.2	Denebola	182 25.7	N 14 26.2	
05	179 17.9	253 44.6	S 22 40.1	293 01.9	S 19 48.5	268 49.4	S 24 01.7	145 34.7	N 12 17.9	203 09.5	S 11 41.7	335 16.6	S 10 29.7	55.2				
06	194 20.4	268 44.3	S 22 39.8	308 01.2	S 19 49.0	283 49.8	S 24 01.8	160 37.2	N 12 18.0	218 11.8	S 11 41.7	349 51.1	S 10 43.3	55.3	Diphda	348 48.1	S 17 51.5	
07	209 22.9	283 44.0	S 22 39.5	323 00.4	S 19 49.6	298 50.2	S 24 01.8	175 39.6	N 12 18.0	233 14.0	S 11 41.6	4 25.5	S 10 56.8	55.3	Dubhe	193 41.7	N 61 37.0	
08	224 25.3	298 43.7	S 22 39.3	337 59.7	S 19 50.2	313 50.6	S 24 01.8	190 42.0	N 12 18.0	248 16.3	S 11 41.5	18 59.8	S 11 10.4	55.3	Elnath	278 02.6	N 28 37.7	
09	239 27.8	313 43.4	S 22 39.0	352 59.0	S 19 50.8	328 51.1	S 24 01.8	205 44.4	N 12 18.0	263 18.5	S 11 41.4	33 34.1	S 11 23.9	55.3	Etamin	90 43.1	N 51 29.0	
10	254 30.3	328 43.2	S 22 38.7	7 58.3	S 19 51.3	343 51.5	S 24 01.8	220 46.9	N 12 18.1	278 20.8	S 11 41.3	48 08.3	S 11 37.3	55.4	Enif	33 39.9	N 9 59.1	
11	269 32.7	343 42.9	S 22 38.4	22 57.6	S 19 51.9	358 51.9	S 24 01.8	235 49.3	N 12 18.1	293 23.0	S 11 41.2	62 42.4	S 11 50.8	55.4				
12	284 35.2	358 42.6	S 22 38.2	37 56.8	S 19 52.5	13 52.3	S 24 01.9	250 51.7	N 12 18.1	308 25.2	S 11 41.1	77 16.4	S 12 04.2	55.4	Fomalhaut	15 15.6	S 29 29.9	
13	299 37.7	13 42.3	S 22 37.9	52 56.1	S 19 53.0	28 52.8	S 24 01.9	265 54.1	N 12 18.1	323 27.5	S 11 41.0	91 50.4	S 12 17.5	55.4	Gacrux	171 52.6	S 57 14.6	
14	314 40.1	28 42.0	S 22 37.6	67 55.4	S 19 53.6	43 53.2	S 24 01.9	280 56.5	N 12 18.2	338 29.7	S 11 41.0	106 24.3	S 12 30.9	55.5	Gienah	175 44.4	S 17 40.4	
15	329 42.6	43 41.7	S 22 37.3	82 54.7	S 19 54.2	58 53.6	S 24 01.9	295 59.0	N 12 18.2	353 32.0	S 11 40.9	120 58.1	S 12 44.2	55.5	Hadar	148 37.5	S 60 29.0	
16	344 45.1	58 41.5	S 22 37.0	97 53.9	S 19 54.7	73 54.0	S 24 01.9	311 01.4	N 12 18.2	8 34.2	S 11 40.8	135 31.9	S 12 57.4	55.5	Hamal	327 52.0	N 23 34.6	
17	359 47.5	73 41.2	S 22 36.8	112 53.2	S 19 55.3	88 54.5	S 24 01.9	326 03.8	N 12 18.3	23 36.5	S 11 40.7	150 05.5	S 13 10.6	55.5				
18	14 50.0	88 40.9	S 22 36.5	127 52.5	S 19 55.8	103 54.9	S 24 01.9	341 06.2	N 12 18.3	38 38.7	S 11 40.6	164 39.1	S 13 23.8	55.6	Kaus aust.	83 34.0	S 34 22.4	
19	29 52.4	103 40.6	S 22 36.2	142 51.8	S 19 56.4	118 55.3	S 24 01.9	356 08.7	N 12 18.3	53 40.9	S 11 40.5	179 12.6	S 13 36.9	55.6	Kochab	137 20.4	N 74 03.1	
20	44 54.9	118 40.4	S 22 35.9	157 51.0	S 19 57.0	133 55.7	S 24 02.0	11 11.1	N 12 18.3	68 43.2	S 11 40.4	193 46.0	S 13 50.0	55.6	Markab	13 30.9	N 15 20.1	
21	59 57.4	133 40.1	S 22 35.6	172 50.3	S 19 57.5	148 56.2	S 24 02.0	26 13.5	N 12 18.4	83 45.4	S 11 40.3	208 19.3	S 14 03.1	55.7	Menkar	314 06.8	N 4 11.0	
22	74 59.8	148 39.8	S 22 35.3	187 49.6	S 19 58.1	163 56.6	S 24 02.0	41 15.9	N 12 18.4	98 47.7	S 11 40.3	222 52.5	S 14 16.1	55.7	Menkent	147 58.8	S 36 29.1	
23	90 02.3	163 39.5	S 22 35.1	202 48.9	S 19 58.6	178 57.0	S 24 02.0	56 18.3	N 12 18.4	113 49.9	S 11 40.2	237 25.6	S 14 29.1	55.7				
06 00	105 04.8	178 39.2	S 22 34.8	217 48.1	S 19 59.2	193 57.4	S 24 02.0	71 20.8	N 12 18.5	128 52.2	S 11 40.1	251 58.7	S 14 42.0	55.7	Miaplacidus	221 37.7	S 69 48.7	
01	120 07.2	193 39.0	S 22 34.5	232 47.4	S 19 59.7	208 57.9	S 24 02.0	86 23.2										

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	GENNAIO	07
07 00	106 03.9	178 32.6 S 22 27.7	217 30.5 S 20 12.3	194 07.6 S 24 02.1	72 18.7 N 12 19.2	129 45.9 S 11 38.0	240 41.8 S 19 34.8	56.5	NOME	360 - AR	Dec.	
01	121 06.4	193 32.3 S 22 27.4	232 29.8 S 20 12.8	209 08.0 S 24 02.1	87 21.1 N 12 19.2	144 48.2 S 11 37.9	255 12.3 S 19 46.1	56.6	Acamar	315 12.2	S 40 12.7	
02	136 08.8	208 32.1 S 22 27.1	247 29.0 S 20 13.3	224 08.4 S 24 02.1	102 23.5 N 12 19.2	159 50.4 S 11 37.8	269 42.6 S 19 57.4	56.6	Achernar	335 20.7	S 57 07.2	
03	151 11.3	223 31.8 S 22 26.8	262 28.3 S 20 13.8	239 08.9 S 24 02.1	117 26.0 N 12 19.3	174 52.7 S 11 37.7	284 12.8 S 20 08.6	56.6	AcruX	173 01.0	S 63 13.6	
04	166 13.8	238 31.5 S 22 26.4	277 27.5 S 20 14.4	254 09.3 S 24 02.1	132 28.4 N 12 19.3	189 54.9 S 11 37.6	298 42.8 S 20 19.7	56.7	Adhara	255 06.1	S 29 00.3	
05	181 16.2	253 31.2 S 22 26.1	292 26.8 S 20 14.9	269 09.7 S 24 02.1	147 30.8 N 12 19.3	204 57.1 S 11 37.5	313 12.8 S 20 30.7	56.7	Aldebaran	290 40.3	N 16 33.5	
06	196 18.7	268 31.0 S 22 25.8	307 26.1 S 20 15.4	284 10.1 S 24 02.1	162 33.2 N 12 19.4	219 59.4 S 11 37.4	327 42.6 S 20 41.6	56.7				
07	211 21.2	283 30.7 S 22 25.5	322 25.3 S 20 16.0	299 10.5 S 24 02.1	177 35.6 N 12 19.4	235 01.6 S 11 37.3	342 12.4 S 20 52.4	56.8	Alioth	166 13.7	N 55 49.5	
08	226 23.6	298 30.4 S 22 25.2	337 24.6 S 20 16.5	314 11.0 S 24 02.1	192 38.0 N 12 19.4	250 03.8 S 11 37.2	356 42.0 S 21 03.2	56.8	Alkaid	152 52.8	N 49 11.3	
09	241 26.1	313 30.2 S 22 24.9	352 23.8 S 20 17.0	329 11.4 S 24 02.1	207 40.4 N 12 19.5	265 06.1 S 11 37.2	11 11.4 S 21 13.8	56.8	Alnair	27 34.3	S 46 50.9	
10	256 28.5	328 29.9 S 22 24.6	7 23.1 S 20 17.5	344 11.8 S 24 02.1	222 42.8 N 12 19.5	280 08.3 S 11 37.1	25 40.8 S 21 24.4	56.9	Alnilam	275 38.3	S 1 11.2	
11	271 31.0	343 29.6 S 22 24.3	22 22.3 S 20 18.1	359 12.2 S 24 02.1	237 45.2 S 12 19.5	295 10.6 S 11 37.0	40 10.0 S 21 34.8	56.9	Alphard	217 48.3	S 8 45.7	
12	286 33.5	358 29.3 S 22 24.0	37 21.6 S 20 18.6	14 12.7 S 24 02.1	252 47.6 N 12 19.6	310 12.8 S 11 36.9	54 39.1 S 21 45.2	56.9				
13	301 35.9	13 29.1 S 22 23.6	52 20.9 S 20 19.1	29 13.1 S 24 02.1	267 50.0 N 12 19.6	325 15.0 S 11 36.8	69 08.1 S 21 55.5	57.0	Alphecca	126 04.7	N 26 37.9	
14	316 38.4	28 28.8 S 22 23.3	67 20.1 S 20 19.6	44 13.5 S 24 02.0	282 52.4 N 12 19.6	340 17.3 S 11 36.7	83 36.9 S 22 05.7	57.0	Alpheratz	357 35.7	N 29 13.5	
15	331 40.9	43 28.5 S 22 23.0	82 19.4 S 20 20.1	59 13.9 S 24 02.0	297 54.8 N 12 19.7	355 19.5 S 11 36.6	98 05.6 S 22 15.7	57.0	Altair	62 01.1	N 8 55.8	
16	346 43.3	58 28.3 S 22 22.7	97 18.6 S 20 20.7	74 14.3 S 24 02.0	312 57.3 N 12 19.7	10 21.8 S 11 36.5	112 34.2 S 22 25.7	57.1	Ankaa	353 08.0	S 42 10.8	
17	1 45.8	73 28.0 S 22 22.4	112 17.9 S 20 21.2	89 14.8 S 24 02.0	327 59.7 N 12 19.7	25 24.0 S 11 36.4	127 02.7 S 22 35.5	57.1	Antares	112 17.2	S 26 29.0	
18	16 48.3	88 27.7 S 22 22.1	127 17.1 S 20 21.7	104 15.2 S 24 02.0	343 02.1 N 12 19.8	40 26.2 S 11 36.4	141 31.1 S 22 45.3	57.2				
19	31 50.7	103 27.4 S 22 21.7	142 16.4 S 20 22.2	119 15.6 S 24 02.0	358 04.5 N 12 19.8	55 28.5 S 11 36.3	155 59.3 S 22 54.9	57.2	Arcturus	145 48.8	N 19 03.3	
20	46 53.2	118 27.2 S 22 21.4	157 15.6 S 20 22.7	134 16.0 S 24 02.0	13 06.9 N 12 19.8	70 30.7 S 11 36.2	170 27.4 S 23 04.5	57.2	Atria	107 12.7	S 69 04.1	
21	61 55.7	133 26.9 S 22 21.1	172 14.9 S 20 23.2	149 16.4 S 24 02.0	28 09.3 N 12 19.9	85 32.9 S 11 36.1	184 55.3 S 23 13.9	57.3	Avior	234 14.5	S 59 35.0	
22	76 58.1	148 26.6 S 22 20.8	187 14.1 S 20 23.8	164 16.9 S 24 02.0	43 11.7 N 12 19.9	100 35.2 S 11 36.0	199 23.2 S 23 23.2	57.3	Bellatrix	278 23.5	N 6 22.3	
23	92 00.6	163 26.4 S 22 20.5	202 13.4 S 20 24.3	179 17.3 S 24 02.0	58 14.1 N 12 19.9	115 37.4 S 11 35.9	213 50.9 S 23 32.4	57.3	Betelgeuse	270 52.7	N 7 24.7	
08 00	107 03.0	178 26.1 S 22 20.1	217 12.6 S 20 24.8	194 17.7 S 24 01.9	73 16.5 N 12 20.0	130 39.6 S 11 35.8	228 18.4 S 23 41.5	57.4	Canopus	263 52.2	S 52 42.5	
01	122 05.5	193 25.8 S 22 19.8	232 11.9 S 20 25.3	209 18.1 S 24 01.9	88 18.9 N 12 20.0	145 41.9 S 11 35.7	242 45.9 S 23 50.4	57.4	Capella	280 22.7	N 46 01.4	
02	137 08.0	208 25.6 S 22 19.5	247 11.1 S 20 25.8	224 18.5 S 24 01.9	103 21.3 N 12 20.0	160 44.1 S 11 35.6	257 13.2 S 23 59.3	57.4	Castor	245 57.7	N 31 50.1	
03	152 10.4	223 25.3 S 22 19.2	262 10.4 S 20 26.3	239 19.0 S 24 01.9	118 23.7 N 12 20.1	175 46.4 S 11 35.5	271 40.5 S 24 08.0	57.5	Deneb	49 26.8	N 45 22.0	
04	167 12.9	238 25.0 S 22 18.8	277 09.6 S 20 26.8	254 19.4 S 24 01.9	133 26.1 N 12 20.1	190 48.6 S 11 35.5	286 07.5 S 24 16.6	57.5	Denebola	182 25.7	N 14 26.2	
05	182 15.4	253 24.8 S 22 18.5	292 08.9 S 20 27.3	269 19.8 S 24 01.9	148 28.5 N 12 20.1	205 50.8 S 11 35.4	300 34.4 S 24 25.0	57.6				
06	197 17.8	268 24.5 S 22 18.2	307 08.1 S 20 27.8	284 20.2 S 24 01.9	163 30.9 N 12 20.2	220 53.1 S 11 35.3	315 01.2 S 24 33.4	57.6	Diphda	348 48.2	S 17 51.5	
07	212 20.3	283 24.2 S 22 17.8	322 07.4 S 20 28.3	299 20.6 S 24 01.9	178 33.3 N 12 20.2	235 55.3 S 11 35.2	329 27.9 S 24 41.6	57.6	Dubhe	193 41.7	N 61 37.0	
08	227 22.8	298 23.9 S 22 17.5	337 06.6 S 20 28.8	314 21.1 S 24 01.8	193 35.7 N 12 20.3	250 57.5 S 11 35.1	343 54.5 S 24 49.6	57.7	Elnath	278 02.6	N 28 37.7	
09	242 25.2	313 23.7 S 22 17.2	352 05.9 S 20 29.3	329 21.5 S 24 01.8	208 38.1 N 12 20.3	265 59.8 S 11 35.0	358 20.9 S 24 57.6	57.7	Etamin	90 43.1	N 51 29.0	
10	257 27.7	328 23.4 S 22 16.9	7 05.1 S 20 29.8	344 21.9 S 24 01.8	223 40.5 N 12 20.3	281 02.0 S 11 34.9	12 47.2 S 25 05.4	57.7	Enif	33 39.9	N 9 59.1	
11	272 30.2	343 23.1 S 22 16.5	22 04.3 S 20 30.3	359 22.3 S 24 01.8	238 42.9 N 12 20.4	296 04.3 S 11 34.8	27 13.4 S 25 13.1	57.8				
12	287 32.6	358 22.9 S 22 16.2	37 03.6 S 20 30.8	14 22.7 S 24 01.8	253 45.3 N 12 20.4	311 06.5 S 11 34.7	41 39.4 S 25 20.6	57.8	Fomalhaut	15 15.6	S 29 29.9	
13	302 35.1	13 22.6 S 22 15.9	52 02.8 S 20 31.3	29 23.2 S 24 01.8	268 47.7 N 12 20.4	326 08.7 S 11 34.6	56 05.4 S 25 28.0	57.9	Gacrux	171 52.5	S 57 14.6	
14	317 37.5	28 22.2 S 22 15.5	67 02.1 S 20 31.8	44 23.6 S 24 01.7	283 50.1 N 12 20.5	341 11.0 S 11 34.6	70 31.2 S 25 35.2	57.9	Gienah	175 44.4	S 17 40.4	
15	332 40.0	43 22.1 S 22 15.2	82 01.3 S 20 32.3	59 24.0 S 24 01.7	298 52.5 N 12 20.5	356 13.2 S 11 34.5	84 56.8 S 25 42.3	57.9	Hadar	148 37.4	S 60 29.0	
16	347 42.5	58 21.8 S 22 14.9	97 00.6 S 20 32.8	74 24.4 S 24 01.7	313 54.9 N 12 20.5	11 15.4 S 11 34.4	99 22.4 S 25 49.3	58.0	Hamal	327 52.0	N 23 34.6	
17	2 44.9	73 21.6 S 22 14.5	111 59.8 S 20 33.3	89 24.8 S 24 01.7	328 57.3 N 12 20.6	26 17.7 S 11 34.3	113 47.8 S 25 56.1	58.0				
18	17 47.4	88 21.3 S 22 14.2	126 59.0 S 20 33.8	104 25.3 S 24 01.7	343 59.7 N 12 20.6	41 19.9 S 11 34.2	128 13.2 S 26 02.8	58.0	Kaus aust.	83 34.0	S 34 22.4	
19	32 49.9	103 21.0 S 22 13.8	141 58.3 S 20 34.3	119 25.7 S 24 01.6	359 02.1 N 12 20.7	56 22.1 S 11 34.1	142 38.4 S 26 09.3	58.1	Kochab	137 20.3	N 74 03.1	
20	47 52.3	118 20.8 S 22 13.5	156 57.5 S 20 34.8	134 26.1 S 24 01.6	14 04.5 N 12 20.7	71 24.4 S 11 34.0	157 03.4 S 26 15.7	58.1	Markab	13 30.9	N 15 20.1	
21	62 54.8	133 20.5 S 22 13.2	171 56.8 S 20 35.3	149 26.5 S 24 01.6	29 06.9 N 12 20.7	86 26.6 S 11 33.9	171 28.4 S 26 21.9	58.1	Menkar	314 06.8	N 4 11.0	
22	77 57.3	148 20.2 S 22 12.8	186 56.0 S 20 35.8	164 26.9 S 24 01.6	44 09.3 N 12 20.8	101 28.8 S 11 33.8	185 53.3 S 26 27.9	58.2	Menkent	147 58.7	S 36 29.1	
23	92 59.7	163 20.0 S 22 12.5	201 55.3 S 20 36.3	179 27.3 S 24 01.6	59 11.7 N 12 20.8	116 31.1 S 11 33.7	200 18.0 S 26 33.8	58.2				
09 00	108 02.2	178 19.7 S 22 12.1	216 54.5 S 20 36.8	194 27.8 S 24 01.5	74 14.1 N 12 20.8	131 33.3 S 11 33.6	214 42.6 S 26 39.6	58.3	Miaplacidus	221 37.7	S 69 48.7	
01	123 04.7	193 19.4 S 22 11.8	231 53.7 S 20 37.2	209 28.2 S 24 01.5	89 16.6 N 12 20.9	146 35.5 S 11 33.6	229 07.1 S 26 45.2	58.3	Mirfak	308 29.1	N 49 56.9	
02	138 07.1	208 19.2 S 22 11.5	246 53.0 S 20 37.7	224 28.6 S 24 01.5	104 18.8 N 12 20.9	161 37.8 S 11 33.5	243 31.5 S 26 50.6	58.3	Mizar	158 46.6	N 54 47.7	
03	153 09.6	223 18.9 S 22 11.1	261 52.2 S 20 38.2	239 29.0 S 24 01.5	119 21.2 N 12 20.9	176 40.0 S 11 33.4	257 55.8 S 26 55.8	58.4	Nunki	75 49.2	S 26 16.1	
04	168 12.0	238 18.6 S 22 10.8	276 51.4 S 20 38.7	254 29.4 S 24 01.4	134 23.6 N 12 21.0	191 42.2 S 11 33.3	272 20.0 S 27 00.9	58.4	Peacock	53 07.6	S 56 39.6	
05	183 14.5	253 18.4 S 22 10.4	291 50.7 S 20 39.2	269 29.9 S 24 01.4	149 26.0 N 12 21.0	206 44.5 S 11 33.2	286 44.0 S 27 05.8	58.4	Polaris	314 11.2	N 89 22.2	
06	198 17.0	268 18.1 S 22 10.1	306 49.9 S 20 39.7	284 30.3 S 24 01.4	164 28.4 N 12 21.1	221 46.7 S 11 33.1	301 08.0 S 27 10.6	58.5	Pollux	243 18.0	N 27 58.0	
07	213 19.4	283 17.9 S 22 09.7	321 49.2 S 20 40.1	299 30.7 S 24 01.4	179 30.8 N 12 21.1	236 48.9 S 11 33.0	315 31.9 S 27 15.2	58.5	Procyon	244 51.4	N 5 09.8	
08	228 21.9	298 17.6 S 22 09.4	336 48.4 S 20 40.6	314 31.1 S 24 01.3	194 33.2 N 12 21.1	251 51.2 S 11 32.9	329 55.6 S 27 19.6	58.5	Rasalhague	95 59.6	N 12	

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	GENNAIO	10
d h	'	'	'	'	'	'	'	'	'	'	'	'
10 00	109 01.3	178 13.4 S 22 03.7	216 36.1 S 20 48.2	194 37.8 S 24 00.9	75 11.4 N 12 21.8	132 26.9 S 11 31.5	200 03.7 S 28 05.6	59.1	NOME	360	- AR	Dec.
01	124 03.8	193 13.2 S 22 03.4	231 35.3 S 20 48.6	209 38.2 S 24 00.8	90 13.8 N 12 21.8	147 29.1 S 11 31.4	214 26.1 S 28 06.9	59.1	Acamar	315	12.2	S 40 12.7
02	139 06.3	208 12.9 S 22 03.0	246 34.6 S 20 49.1	224 38.6 S 24 00.8	105 16.2 N 12 21.8	162 31.4 S 11 31.3	228 48.4 S 28 08.0	59.1	Achernar	335	20.7	S 57 07.2
03	154 08.7	223 12.7 S 22 02.6	261 33.8 S 20 49.6	239 39.0 S 24 00.8	120 18.6 N 12 21.9	177 33.6 S 11 31.2	243 10.7 S 28 08.9	59.2	AcruX	173	00.9	S 63 13.6
04	169 11.2	238 12.4 S 22 02.3	276 33.0 S 20 50.0	254 39.5 S 24 00.7	135 20.1 N 12 21.9	192 35.8 S 11 31.1	257 32.8 S 28 09.6	59.2	Adhara	255	06.1	S 29 00.3
05	184 13.7	253 12.1 S 22 01.9	291 32.3 S 20 50.5	269 39.9 S 24 00.7	150 23.3 N 12 22.0	207 38.1 S 11 31.0	271 55.0 S 28 10.1	59.2	Aldebaran	290	40.3	N 16 33.5
06	199 16.1	268 11.9 S 22 01.5	306 31.5 S 20 50.9	284 40.3 S 24 00.7	165 25.7 N 12 22.0	222 40.3 S 11 30.9	286 17.1 S 28 10.4	59.3				
07	214 18.6	283 11.6 S 22 01.2	321 30.7 S 20 51.4	299 40.7 S 24 00.6	180 28.1 N 12 22.1	237 42.5 S 11 30.8	300 39.1 S 28 10.6	59.3	Alioth	166	13.6	N 55 49.5
08	229 21.0	298 11.4 S 22 00.8	336 29.9 S 20 51.8	314 41.1 S 24 00.6	195 30.5 N 12 22.1	252 44.8 S 11 30.7	315 01.1 S 28 10.5	59.3	Alkaid	152	52.7	N 49 11.3
09	244 23.5	313 11.1 S 22 00.5	351 29.2 S 20 52.3	329 41.5 S 24 00.6	210 32.9 N 12 22.1	267 47.0 S 11 30.6	329 23.1 S 28 10.2	59.4	Alnair	27	34.3	S 46 50.9
10	259 26.0	328 10.9 S 22 00.1	6 28.4 S 20 52.8	344 42.0 S 24 00.5	225 35.3 N 12 22.2	282 49.2 S 11 30.5	343 45.0 S 28 09.7	59.4	Alnilam	275	38.3	S 1 11.2
11	274 28.4	343 10.6 S 21 59.7	21 27.6 S 20 53.2	359 42.4 S 24 00.5	240 37.6 N 12 22.2	297 51.5 S 11 30.4	358 06.9 S 28 09.0	59.4	Alphard	217	48.3	S 8 45.7
12	289 30.9	358 10.4 S 21 59.3	36 26.8 S 20 53.7	14 42.8 S 24 00.4	255 40.0 N 12 22.3	312 53.7 S 11 30.4	12 28.8 S 28 08.1	59.4				
13	304 33.4	13 10.1 S 21 59.0	51 26.1 S 20 54.1	29 43.2 S 24 00.4	270 42.4 N 12 22.3	327 55.9 S 11 30.3	26 50.6 S 28 07.0	59.5	Alphecca	126	04.7	N 26 37.9
14	319 35.8	28 09.8 S 21 58.6	66 25.3 S 20 54.6	44 43.6 S 24 00.4	285 44.8 N 12 22.3	342 58.2 S 11 30.2	41 12.4 S 28 05.8	59.5	Alpheratz	357	35.7	N 29 13.5
15	334 38.3	43 09.6 S 21 58.2	81 24.5 S 20 55.0	59 44.0 S 24 00.3	300 47.2 N 12 22.4	358 00.4 S 11 30.1	55 34.2 S 28 04.3	59.5	Altair	62	01.1	N 8 55.8
16	349 40.8	58 09.3 S 21 57.9	96 23.7 S 20 55.5	74 44.4 S 24 00.3	315 49.6 N 12 22.4	13 02.6 S 11 30.0	69 56.0 S 28 02.6	59.6	Ankaa	353	08.1	S 42 10.8
17	4 43.2	73 09.1 S 21 57.5	111 22.9 S 20 55.9	89 44.9 S 24 00.2	330 51.9 N 12 22.5	28 04.8 S 11 29.9	84 17.7 S 28 00.7	59.6	Antares	112	17.1	S 26 29.0
18	19 45.7	88 08.8 S 21 57.1	126 22.2 S 20 56.4	104 45.3 S 24 00.2	345 54.3 N 12 22.5	43 07.1 S 11 29.8	98 39.4 S 27 58.6	59.6				
19	34 48.2	103 08.6 S 21 56.7	141 21.4 S 20 56.8	119 45.7 S 24 00.2	0 56.7 N 12 22.6	58 09.3 S 11 29.7	113 01.2 S 27 56.3	59.6	Arcturus	145	48.8	N 19 03.3
20	49 50.6	118 08.3 S 21 56.4	156 20.6 S 20 57.2	134 46.1 S 24 00.1	15 59.1 N 12 22.6	73 11.5 S 11 29.6	127 22.9 S 27 53.8	59.7	Atria	107	12.6	S 69 04.0
21	64 53.1	133 08.1 S 21 56.0	171 19.8 S 20 57.7	149 46.5 S 24 00.1	31 01.5 S 12 22.6	88 13.8 S 11 29.5	141 44.6 S 27 51.1	59.7	Avior	234	14.5	S 59 35.1
22	79 55.5	148 07.8 S 21 55.6	186 19.1 S 20 58.1	164 46.9 S 24 00.0	46 03.8 N 12 22.7	103 16.0 S 11 29.4	156 06.3 S 27 48.2	59.7	Bellatrix	278	23.5	N 6 22.3
23	94 58.0	163 07.6 S 21 55.2	201 18.3 S 20 58.6	179 47.4 S 24 00.0	61 06.2 N 12 22.7	118 18.2 S 11 29.3	170 28.0 S 27 45.1	59.7	Betelgeuse	270	52.7	N 7 24.7
11 00	110 00.5	178 07.3 S 21 54.9	216 17.5 S 20 59.0	194 47.8 S 23 59.9	76 08.6 N 12 22.8	133 20.5 S 11 29.2	184 49.7 S 27 41.8	59.8	Canopus	263	52.2	S 52 42.5
01	125 02.9	193 07.1 S 21 54.5	231 16.7 S 20 59.5	209 48.2 S 23 59.9	91 11.0 N 12 22.8	148 22.7 S 11 29.2	199 11.4 S 27 38.2	59.8	Capella	280	22.7	N 46 01.4
02	140 05.4	208 06.8 S 21 54.1	246 15.9 S 20 59.9	224 48.6 S 23 59.9	106 13.3 N 12 22.8	163 24.9 S 11 29.1	213 33.2 S 27 34.5	59.8	Castor	245	57.7	N 31 50.1
03	155 07.9	223 06.5 S 21 53.7	261 15.2 S 21 00.3	239 49.0 S 23 59.8	121 15.7 N 12 22.9	178 27.1 S 11 29.0	227 54.9 S 27 30.6	59.8	Deneb	49	26.8	N 45 22.0
04	170 10.3	238 06.3 S 21 53.3	276 14.4 S 21 00.8	254 49.4 S 23 59.8	136 18.1 N 12 22.9	193 29.4 S 11 28.9	242 16.7 S 27 26.5	59.9	Denebola	182	25.7	N 14 26.2
05	185 12.8	253 06.0 S 21 53.0	291 13.6 S 21 01.2	269 49.9 S 23 59.7	151 20.5 N 12 23.0	208 31.6 S 11 28.8	256 38.5 S 27 22.2	59.9				
06	200 15.3	268 05.8 S 21 52.6	306 12.8 S 21 01.6	284 50.3 S 23 59.7	166 22.8 N 12 23.0	223 33.8 S 11 28.7	271 00.3 S 27 17.6	59.9	Diphda	348	48.2	S 17 51.5
07	215 17.7	283 05.5 S 21 52.2	321 12.0 S 21 02.1	299 50.7 S 23 59.6	181 25.2 N 12 23.1	238 36.1 S 11 28.6	285 22.1 S 27 12.9	59.9	Dubhe	193	41.6	N 61 37.0
08	230 20.2	298 05.3 S 21 51.8	336 11.2 S 21 02.5	314 51.1 S 23 59.6	196 27.6 N 12 23.1	253 38.3 S 11 28.5	299 44.0 S 27 08.0	60.0	Elnath	278	02.6	N 28 37.7
09	245 22.6	313 05.0 S 21 51.4	351 10.5 S 21 02.9	329 51.5 S 23 59.5	211 30.0 N 12 23.2	268 40.5 S 11 28.4	314 05.9 S 27 02.9	60.0	Etamin	90	43.1	N 51 29.0
10	260 25.1	328 04.8 S 21 51.1	6 09.7 S 21 03.4	344 51.9 S 23 59.5	226 32.3 N 12 23.2	283 42.8 S 11 28.3	328 27.8 S 26 57.6	60.0	Enif	33	39.9	N 9 59.1
11	275 27.6	343 04.5 S 21 50.7	21 08.9 S 21 03.8	359 52.3 S 23 59.4	241 34.7 N 12 23.2	298 45.0 S 11 28.2	342 49.7 S 26 52.1	60.0				
12	290 30.0	358 04.3 S 21 50.3	36 08.1 S 21 04.2	14 52.8 S 23 59.4	256 37.1 N 12 23.3	313 47.2 S 11 28.1	357 11.7 S 26 46.4	60.0	Fomalhaut	15	15.6	S 29 29.9
13	305 32.5	13 04.0 S 21 49.9	51 07.3 S 21 04.6	29 53.2 S 23 59.3	271 39.5 N 12 23.3	328 49.4 S 11 28.0	11 33.8 S 26 40.4	60.1	Gacrux	171	52.5	S 57 14.6
14	320 35.0	28 03.8 S 21 49.5	66 06.5 S 21 05.1	44 53.6 S 23 59.3	286 41.8 N 12 23.4	343 51.7 S 11 27.9	25 55.9 S 26 34.3	60.1	Gienah	175	44.4	S 17 40.4
15	335 37.4	43 03.5 S 21 49.1	81 05.7 S 21 05.5	59 54.0 S 23 59.2	301 44.2 N 12 23.4	358 53.9 S 11 27.9	40 18.0 S 26 28.1	60.1	Hadar	148	37.4	S 60 29.0
16	350 39.9	58 03.3 S 21 48.7	96 05.0 S 21 05.9	74 54.4 S 23 59.2	316 46.6 N 12 23.5	13 56.1 S 11 27.8	54 40.2 S 26 21.6	60.1	Hamal	327	52.0	N 23 34.6
17	5 42.4	73 03.0 S 21 48.3	111 04.2 S 21 06.3	89 54.8 S 23 59.1	331 49.0 N 12 23.5	28 58.4 S 11 27.7	69 02.4 S 26 14.9	60.1				
18	20 44.8	88 02.8 S 21 47.9	126 03.4 S 21 06.8	104 55.2 S 23 59.1	346 51.3 N 12 23.6	44 00.6 S 11 27.6	83 24.7 S 26 08.0	60.2	Kaus aust.	83	34.0	S 34 22.4
19	35 47.3	103 02.5 S 21 47.6	141 02.6 S 21 07.2	119 55.7 S 23 59.0	1 53.7 N 12 23.6	59 02.8 S 11 27.5	97 47.0 S 26 01.0	60.2	Kochab	137	20.3	N 74 03.1
20	50 49.8	118 02.3 S 21 47.2	156 01.8 S 21 07.6	134 56.1 S 23 59.0	16 56.1 N 12 23.6	74 05.0 S 11 27.4	112 09.4 S 25 53.7	60.2	Markab	13	30.9	N 15 20.1
21	65 52.2	133 02.1 S 21 46.8	171 01.0 S 21 08.0	149 56.5 S 23 58.9	31 58.4 N 12 23.7	89 07.3 S 11 27.3	126 31.9 S 25 46.3	60.2	Menkar	314	06.9	N 4 11.0
22	80 54.7	148 01.8 S 21 46.4	186 00.2 S 21 08.4	164 56.9 S 23 58.9	47 00.8 N 12 23.7	104 09.5 S 11 27.2	140 54.4 S 25 38.6	60.2	Menkent	147	58.7	S 36 29.1
23	95 57.1	163 01.6 S 21 46.0	200 59.4 S 21 08.9	179 57.3 S 23 58.8	62 03.2 N 12 23.8	119 11.7 S 11 27.1	155 17.0 S 25 30.8	60.2				
12 00	110 59.6	178 01.3 S 21 45.6	215 58.7 S 21 09.3	194 57.7 S 23 58.8	77 05.6 N 12 23.8	134 14.0 S 11 27.0	169 39.6 S 25 22.8	60.3	Miaplacidus	221	37.6	S 69 48.7
01	126 02.1	193 01.1 S 21 45.2	230 57.9 S 21 09.7	209 58.1 S 23 58.7	92 07.9 N 12 23.9	149 16.2 S 11 26.9	184 02.4 S 25 14.7	60.3	Mirfak	308	29.2	N 49 56.9
02	141 04.5	208 00.8 S 21 44.8	245 57.1 S 21 10.1	224 58.6 S 23 58.7	107 10.3 N 12 23.9	164 18.4 S 11 26.8	198 25.2 S 25 06.3	60.3	Mizar	158	46.6	N 54 47.7
03	156 07.0	223 00.6 S 21 44.4	260 56.3 S 21 10.5	239 59.0 S 23 58.6	122 12.7 N 12 24.0	179 20.6 S 11 26.7	212 48.0 S 24 57.8	60.3	Nunki	75	49.2	S 26 16.1
04	171 09.5	238 00.3 S 21 44.0	275 55.5 S 21 10.9	254 59.4 S 23 58.5	137 15.0 N 12 24.0	194 22.9 S 11 26.6	227 11.0 S 24 49.1	60.3	Peacock	53	07.6	S 56 39.6
05	186 11.9	253 00.1 S 21 43.6	290 54.7 S 21 11.3	269 59.8 S 23 58.5	152 17.4 N 12 24.1	209 25.1 S 11 26.5	241 34.0 S 24 40.2	60.3	Polaris	314	12.1	N 89 22.2
06	201 14.4	267 59.8 S 21 43.2	305 53.9 S 21 11.8	285 00.2 S 23 58.4	167 19.8 N 12 24.1	224 27.3 S 11 26.5	255 57.1 S 24 31.1	60.3	Pollux	243	17.9	N 27 58.0
07	216 16.9	282 59.6 S 21 42.8	320 53.1 S 21 12.2	300 00.6 S 23 58.4	182 22.1 N 12 24.1	239 29.5 S 11 26.4	270 20.3 S 24 21.8	60.4	Procyon	244	51.4	N 5 09.8
08	231 19.3	297 59.4 S 21 42.4	335 52.3 S 21 12.6	315 01.0 S 23 58.3	197 24.5 N 12 24.2							

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	GENNAIO	13
13 00	111 58.8	177 55.5	S 21 35.9	215 39.6	S 21 19.0	195 07.7	S 23 57.3	78 02.3	N 12 25.0	135 07.4	S 11 24.8	155 07.8	S 21 19.7	60.5	NOME	360	- AR	Dec.
01	127 01.2	192 55.2	S 21 35.5	230 38.8	S 21 19.4	210 08.1	S 23 57.3	93 04.7	N 12 25.0	150 09.6	S 11 24.7	169 32.6	S 21 07.7	60.5	Acamar	315 12.2	S 40 12.7	
02	142 03.7	207 55.0	S 21 35.1	245 38.0	S 21 19.7	225 08.5	S 23 57.2	108 07.1	N 12 25.1	165 11.8	S 11 24.6	183 57.5	S 20 55.4	60.5	Achernar	335 20.7	S 57 07.2	
03	157 06.1	222 54.8	S 21 34.6	260 37.2	S 21 20.1	240 08.9	S 23 57.1	123 09.4	N 12 25.1	180 14.1	S 11 24.5	198 22.6	S 20 43.1	60.5	AcruX	173 00.9	S 63 13.6	
04	172 08.6	237 54.5	S 21 34.2	275 36.4	S 21 20.5	255 09.3	S 23 57.1	138 11.8	N 12 25.1	195 16.3	S 11 24.4	212 47.7	S 20 30.6	60.5	Adhara	255 06.1	S 29 00.3	
05	187 11.1	252 54.3	S 21 33.8	290 35.6	S 21 20.9	270 09.7	S 23 57.0	153 14.1	N 12 25.2	210 18.5	S 11 24.3	227 12.9	S 20 18.0	60.5	Aldebaran	290 40.3	N 16 33.5	
06	202 13.5	267 54.0	S 21 33.4	305 34.8	S 21 21.3	285 10.1	S 23 56.9	168 16.5	N 12 25.2	225 20.7	S 11 24.2	241 38.2	S 20 05.2	60.5				
07	217 16.0	282 53.8	S 21 33.0	320 34.0	S 21 21.7	300 10.6	S 23 56.9	183 18.9	N 12 25.3	240 23.0	S 11 24.1	256 03.7	S 19 52.3	60.5	Alioth	166 13.6	N 55 49.5	
08	232 18.5	297 53.6	S 21 32.6	335 33.2	S 21 22.1	315 11.0	S 23 56.8	198 21.2	N 12 25.3	255 25.2	S 11 24.0	270 29.2	S 19 39.3	60.5	Alkaid	152 52.7	N 49 11.3	
09	247 20.9	312 53.3	S 21 32.1	350 32.4	S 21 22.4	330 11.4	S 23 56.7	213 23.6	N 12 25.4	270 27.4	S 11 23.9	284 54.8	S 19 26.2	60.5	Alnair	27 34.3	S 46 50.9	
10	262 23.4	327 53.1	S 21 31.7	5 31.6	S 21 22.8	345 11.8	S 23 56.6	228 25.9	N 12 25.4	285 29.6	S 11 23.8	299 20.6	S 19 12.9	60.5	Alnilam	275 38.3	S 1 11.2	
11	277 25.9	342 52.8	S 21 31.3	20 30.8	S 21 23.2	0 12.2	S 23 56.6	243 28.3	N 12 25.5	300 31.9	S 11 23.7	313 46.4	S 18 59.5	60.5	Alphard	217 48.3	S 8 45.8	
12	292 28.3	357 52.6	S 21 30.9	35 30.0	S 21 23.6	15 12.6	S 23 56.5	258 30.7	N 12 25.5	315 34.1	S 11 23.6	328 12.3	S 18 46.0	60.5				
13	307 30.8	12 52.4	S 21 30.4	50 29.2	S 21 24.0	30 13.0	S 23 56.4	273 33.0	N 12 25.6	330 36.3	S 11 23.5	342 38.4	S 18 32.4	60.5	Alphecca	126 04.6	N 26 37.8	
14	322 33.3	27 52.1	S 21 30.0	65 28.4	S 21 24.3	45 13.4	S 23 56.4	288 35.4	N 12 25.6	345 38.5	S 11 23.4	357 04.5	S 18 18.6	60.5	Alpheratz	357 35.7	N 29 13.5	
15	337 35.7	42 51.9	S 21 29.6	80 27.6	S 21 24.7	60 13.9	S 23 56.3	303 37.7	N 12 25.7	0 40.8	S 11 23.3	11 30.7	S 18 04.8	60.5	Altair	62 01.1	N 8 55.8	
16	352 38.2	57 51.7	S 21 29.2	95 26.8	S 21 25.1	75 14.3	S 23 56.2	318 40.1	N 12 25.7	15 43.0	S 11 23.3	25 57.1	S 17 50.8	60.5	Ankaa	353 08.1	S 42 10.8	
17	7 40.6	72 51.4	S 21 28.8	110 26.0	S 21 25.5	90 14.7	S 23 56.1	333 42.4	N 12 25.8	30 45.2	S 11 23.2	40 23.5	S 17 36.8	60.5	Antares	112 17.1	S 26 29.1	
18	22 43.1	87 51.2	S 21 28.3	125 25.2	S 21 25.8	105 15.1	S 23 56.1	348 44.8	N 12 25.8	45 47.4	S 11 23.1	54 50.0	S 17 22.6	60.5				
19	37 45.6	102 51.0	S 21 27.9	140 24.4	S 21 26.2	120 15.5	S 23 56.0	3 47.1	N 12 25.9	60 49.7	S 11 23.0	69 16.7	S 17 08.3	60.5	Arcturus	145 48.7	N 19 03.3	
20	52 48.0	117 50.7	S 21 27.5	155 23.6	S 21 26.6	135 15.9	S 23 55.9	18 49.5	N 12 25.9	75 51.9	S 11 22.9	83 43.4	S 16 53.9	60.5	Atria	107 12.5	S 69 04.0	
21	67 50.5	132 50.5	S 21 27.0	170 22.7	S 21 26.9	150 16.3	S 23 55.9	33 51.9	N 12 26.0	90 54.1	S 11 22.8	98 10.2	S 16 39.4	60.5	Avior	234 14.4	S 59 35.1	
22	82 53.0	147 50.3	S 21 26.6	185 21.9	S 21 27.3	165 16.7	S 23 55.8	48 54.2	N 12 26.0	105 56.3	S 11 22.7	112 37.2	S 16 24.9	60.5	Bellatrix	278 23.5	N 6 22.3	
23	97 55.4	162 50.0	S 21 26.2	200 21.1	S 21 27.7	180 17.2	S 23 55.7	63 56.6	N 12 26.1	120 58.6	S 11 22.6	127 04.2	S 16 10.2	60.5	Betelgeuse	270 52.7	N 7 24.7	
14 00	112 57.9	177 49.8	S 21 25.8	215 20.3	S 21 28.0	195 17.6	S 23 55.6	78 58.9	N 12 26.1	136 00.8	S 11 22.5	141 31.3	S 15 55.4	60.5	Canopus	263 52.2	S 52 42.5	
01	128 00.4	192 49.6	S 21 25.3	230 19.5	S 21 28.4	210 18.0	S 23 55.5	94 01.3	N 12 26.2	151 03.0	S 11 22.4	155 58.5	S 15 40.5	60.5	Capella	280 22.7	N 46 01.4	
02	143 02.8	207 49.3	S 21 24.9	245 18.7	S 21 28.8	225 18.4	S 23 55.5	109 03.6	N 12 26.3	166 05.2	S 11 22.3	170 25.8	S 15 25.6	60.5	Castor	245 57.7	N 31 50.1	
03	158 05.3	222 49.1	S 21 24.5	260 17.9	S 21 29.1	240 18.8	S 23 55.4	124 06.0	N 12 26.3	181 07.5	S 11 22.2	184 53.3	S 15 10.5	60.5	Deneb	49 26.8	N 45 22.0	
04	173 07.7	237 48.9	S 21 24.0	275 17.1	S 21 29.5	255 19.2	S 23 55.3	139 08.3	N 12 26.4	196 09.7	S 11 22.1	199 20.8	S 14 55.4	60.5	Denebola	182 25.6	N 14 26.2	
05	188 10.2	252 48.6	S 21 23.6	290 16.3	S 21 29.9	270 19.6	S 23 55.2	154 10.7	N 12 26.4	211 11.9	S 11 22.0	213 48.4	S 14 40.2	60.5				
06	203 12.7	267 48.4	S 21 23.2	305 15.5	S 21 30.2	285 20.0	S 23 55.2	169 13.0	N 12 26.5	226 14.1	S 11 21.9	228 16.0	S 14 24.9	60.4	Diphda	348 48.2	S 17 51.5	
07	218 15.1	282 48.2	S 21 22.7	320 14.7	S 21 30.6	300 20.5	S 23 55.1	184 15.4	N 12 26.5	241 16.3	S 11 21.8	242 43.8	S 14 09.5	60.4	Dubhe	193 41.6	N 61 37.0	
08	233 17.6	297 47.9	S 21 22.3	335 13.9	S 21 30.9	315 20.9	S 23 55.0	199 17.7	N 12 26.6	256 18.6	S 11 21.7	257 11.7	S 13 54.1	60.4	Elnath	278 02.6	N 28 37.7	
09	248 20.1	312 47.7	S 21 21.9	350 13.1	S 21 31.3	330 21.3	S 23 54.9	214 20.1	N 12 26.6	271 20.8	S 11 21.6	271 39.7	S 13 38.5	60.4	Etamin	90 43.1	N 51 29.0	
10	263 22.5	327 47.5	S 21 21.4	5 12.2	S 21 31.7	345 21.7	S 23 54.8	229 22.4	N 12 26.7	286 23.0	S 11 21.5	286 07.7	S 13 22.9	60.4	Enif	33 39.9	N 9 59.1	
11	278 25.0	342 47.2	S 21 21.0	20 11.4	S 21 32.0	0 22.1	S 23 54.8	244 24.8	N 12 26.7	301 25.2	S 11 21.4	300 35.9	S 13 07.3	60.4				
12	293 27.5	357 47.0	S 21 20.5	35 10.6	S 21 32.4	15 22.5	S 23 54.7	259 27.1	N 12 26.8	316 27.5	S 11 21.4	315 04.1	S 12 51.5	60.4	Fomalhaut	15 15.6	S 29 29.9	
13	308 29.9	12 46.8	S 21 20.1	50 09.8	S 21 32.7	30 22.9	S 23 54.6	274 29.5	N 12 26.8	331 29.7	S 11 21.3	329 32.4	S 12 35.7	60.4	Gacrux	171 52.5	S 57 14.6	
14	323 32.4	27 46.6	S 21 19.7	65 09.0	S 21 33.1	45 23.3	S 23 54.5	289 31.8	N 12 26.9	346 31.9	S 11 21.2	344 00.8	S 12 19.8	60.4	Gienah	175 44.3	S 17 40.4	
15	338 34.9	42 46.3	S 21 19.2	80 08.2	S 21 33.4	60 23.7	S 23 54.4	304 34.2	N 12 26.9	1 34.1	S 11 21.1	358 29.3	S 12 03.9	60.4	Hadar	148 37.3	S 60 29.0	
16	353 37.3	57 46.1	S 21 18.8	95 07.4	S 21 33.8	75 24.2	S 23 54.3	319 36.5	N 12 27.0	16 36.3	S 11 21.0	12 57.8	S 11 47.9	60.3	Hamal	327 52.0	N 23 34.6	
17	8 39.8	72 45.9	S 21 18.3	110 06.6	S 21 34.1	90 24.6	S 23 54.3	334 38.9	N 12 27.0	31 38.6	S 11 20.9	27 26.5	S 11 31.8	60.3				
18	23 42.2	87 45.6	S 21 17.9	125 05.8	S 21 34.5	105 25.0	S 23 54.2	349 41.2	N 12 27.1	46 40.8	S 11 20.8	41 55.2	S 11 15.7	60.3	Kaus aust.	83 34.0	S 34 22.4	
19	38 44.7	102 45.4	S 21 17.4	140 04.9	S 21 34.8	120 25.4	S 23 54.1	4 43.6	N 12 27.1	61 43.0	S 11 20.7	56 24.0	S 10 59.6	60.3	Kochab	137 20.2	N 74 03.0	
20	53 47.2	117 45.2	S 21 17.0	155 04.1	S 21 35.2	135 25.8	S 23 54.0	19 45.9	N 12 27.2	76 45.2	S 11 20.6	70 52.9	S 10 43.3	60.3	Markab	13 30.9	N 15 20.1	
21	68 49.6	132 45.0	S 21 16.6	170 03.3	S 21 35.5	150 26.2	S 23 53.9	34 48.3	N 12 27.2	91 47.5	S 11 20.5	85 21.1	S 10 27.1	60.3	Menkar	314 06.9	N 4 11.0	
22	83 52.1	147 44.7	S 21 16.1	185 02.5	S 21 35.8	165 26.6	S 23 53.8	49 50.6	N 12 27.3	106 49.7	S 11 20.4	99 50.9	S 10 10.7	60.3	Menkent	147 58.7	S 36 29.1	
23	98 54.6	162 44.5	S 21 15.7	200 01.7	S 21 36.2	180 27.0	S 23 53.8	64 53.0	N 12 27.4	121 51.9	S 11 20.3	114 20.0	S 9 54.4	60.3				
15 00	113 57.0	177 44.3	S 21 15.2	215 00.9	S 21 36.5	195 27.5	S 23 53.7	79 55.3	N 12 27.4	136 54.1	S 11 20.2	128 49.2	S 9 37.9	60.2	Miaplacidus	221 37.6	S 69 48.7	
01	128 59.5	192 44.0	S 21 14.8	230 00.1	S 21 36.9	210 27.9	S 23 53.6	94 57.6	N 12 27.5	151 56.3	S 11 20.1	143 18.5	S 9 21.5	60.2	Mirfak	308 29.2	N 49	

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	GENNAIO	16
d h	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "
16 00	114 56.2	177 38.9 S 21 04.3	214 41.2 S 21 44.4	195 37.3 S 23 51.4	80 51.5 N 12 28.7	137 47.4 S 11 17.9	116 48.6 S 2 54.8	59.8	NOME	360	- AR	Dec.
01	129 58.6	192 38.7 S 21 03.8	229 40.4 S 21 44.7	210 37.7 S 23 51.4	95 53.8 N 12 28.8	152 49.6 S 11 17.8	131 19.2 S 2 37.8	59.8	Acamar	315	12.2	S 40 12.7
02	145 01.1	207 38.5 S 21 03.3	244 39.6 S 21 45.0	225 38.1 S 23 51.3	110 56.2 N 12 28.8	167 51.9 S 11 17.7	145 49.9 S 2 20.8	59.8	Achernar	335	20.7	S 57 07.2
03	160 03.6	222 38.3 S 21 02.9	259 38.8 S 21 45.3	240 38.6 S 23 51.2	125 58.5 N 12 28.9	182 54.1 S 11 17.6	160 20.6 S 2 03.8	59.7	AcruX	173	00.8	S 63 13.6
04	175 06.0	237 38.0 S 21 02.4	274 37.9 S 21 45.6	255 39.0 S 23 51.1	141 00.8 N 12 29.0	197 56.3 S 11 17.5	174 51.3 S 1 46.8	59.7	Adhara	255	06.1	S 29 00.3
05	190 08.5	252 37.8 S 21 01.9	289 37.1 S 21 46.0	270 39.4 S 23 51.0	156 03.2 N 12 29.0	212 58.5 S 11 17.4	189 22.1 S 1 29.8	59.7	Aldebaran	290	40.3	N 16 33.5
06	205 11.0	267 37.6 S 21 01.5	304 36.3 S 21 46.3	285 39.8 S 23 50.9	171 05.5 N 12 29.1	228 00.7 S 11 17.3	203 52.9 S 1 12.9	59.7				
07	220 13.4	282 37.4 S 21 01.0	319 35.5 S 21 46.6	300 40.2 S 23 50.8	186 07.9 N 12 29.1	243 02.9 S 11 17.2	218 23.7 S 0 55.9	59.7	Alioth	166	13.6	N 55 49.5
08	235 15.9	297 37.2 S 21 00.5	334 34.6 S 21 46.9	315 40.6 S 23 50.7	201 10.2 N 12 29.2	258 05.2 S 11 17.1	232 54.6 S 0 38.9	59.6	Alkaid	152	52.7	N 49 11.3
09	250 18.3	312 37.0 S 21 00.1	349 33.0 S 21 47.2	330 41.0 S 23 50.6	216 12.5 N 12 29.2	273 07.4 S 11 17.0	247 25.5 S 0 22.0	59.6	Alnair	27	34.3	S 46 50.9
10	265 20.8	327 36.7 S 20 59.6	4 33.0 S 21 47.5	345 41.4 S 23 50.4	231 14.9 N 12 29.3	288 09.6 S 11 16.9	261 56.4 S 0 05.1	59.6	Alnilam	275	38.3	S 1 11.2
11	280 23.3	342 36.5 S 20 59.1	19 32.2 S 21 47.8	0 41.8 S 23 50.3	246 17.2 N 12 29.4	303 11.8 S 11 16.8	276 27.3 N 0 11.9	59.6	Alphard	217	48.3	S 8 45.8
12	295 25.7	357 36.3 S 20 58.7	34 31.3 S 21 48.1	15 42.3 S 23 50.2	261 19.5 N 12 29.4	318 14.0 S 11 16.7	290 58.3 N 0 28.8	59.5				
13	310 28.2	12 36.1 S 20 58.2	49 30.5 S 21 48.4	30 42.7 S 23 50.1	276 21.9 N 12 29.5	333 16.3 S 11 16.6	305 29.3 N 0 45.7	59.5	Alphecca	126	04.6	N 26 37.8
14	325 30.7	27 35.9 S 20 57.7	64 29.7 S 21 48.7	45 43.1 S 23 50.0	291 24.2 N 12 29.5	348 18.5 S 11 16.5	320 00.3 N 1 02.5	59.5	Alpheratz	357	35.8	N 29 13.5
15	340 33.1	42 35.7 S 20 57.2	79 28.9 S 21 49.0	60 43.5 S 23 49.9	306 26.5 N 12 29.6	3 20.7 S 11 16.4	334 31.3 N 1 19.4	59.5	Altair	62	01.1	N 8 55.8
16	355 35.6	57 35.4 S 20 56.8	94 28.0 S 21 49.3	75 43.9 S 23 49.8	321 28.9 N 12 29.6	18 22.9 S 11 16.3	349 02.4 N 1 36.2	59.4	Ankaa	353	08.1	S 42 10.8
17	10 38.1	72 35.2 S 20 56.3	109 27.2 S 21 49.6	90 44.3 S 23 49.7	336 31.2 N 12 29.7	33 25.1 S 11 16.3	3 33.5 N 1 53.0	59.4	Antares	112	17.1	S 26 29.1
18	25 40.5	87 35.0 S 20 55.8	124 26.4 S 21 49.9	105 44.7 S 23 49.6	351 33.5 N 12 29.8	48 27.4 S 11 16.2	18 04.6 N 2 09.8	59.4				
19	40 43.0	102 34.8 S 20 55.3	139 25.6 S 21 50.2	120 45.1 S 23 49.5	6 35.9 N 12 29.8	63 29.6 S 11 16.1	32 35.7 N 2 26.6	59.4	Arcturus	145	48.7	N 19 03.3
20	55 45.5	117 34.6 S 20 54.8	154 24.7 S 21 50.5	135 45.5 S 23 49.4	21 38.2 N 12 29.9	78 31.8 S 11 16.0	47 06.8 N 2 43.3	59.3	Atria	107	12.5	S 69 04.0
21	70 47.9	132 34.4 S 20 54.4	169 23.9 S 21 50.8	150 46.0 S 23 49.3	36 40.5 N 12 30.0	93 34.0 S 11 15.9	61 37.9 N 3 00.0	59.3	Avior	234	14.4	S 59 35.1
22	85 50.4	147 34.2 S 20 53.9	184 23.1 S 21 51.1	165 46.4 S 23 49.2	51 42.8 N 12 30.9	108 36.2 S 11 15.8	76 09.1 N 3 16.7	59.3	Bellatrix	278	23.5	N 6 22.3
23	100 52.8	162 34.0 S 20 53.4	199 22.2 S 21 51.3	180 46.8 S 23 49.1	66 45.2 N 12 30.1	123 38.4 S 11 15.7	90 40.2 N 3 33.3	59.3	Betelgeuse	270	52.7	N 7 24.7
17 00	115 55.3	177 33.7 S 20 52.9	214 21.4 S 21 51.6	195 47.2 S 23 49.0	81 47.5 N 12 30.1	138 40.7 S 11 15.6	105 11.4 N 3 49.9	59.3	Canopus	263	52.2	S 52 42.6
01	130 57.8	192 33.5 S 20 52.4	229 20.6 S 21 51.9	210 47.6 S 23 48.9	96 49.8 N 12 30.2	153 42.9 S 11 15.5	119 42.6 N 4 06.5	59.2	Capella	280	22.7	N 46 01.4
02	146 00.2	207 33.3 S 20 52.0	244 19.8 S 21 52.2	225 48.0 S 23 48.8	111 52.2 N 12 30.2	168 45.1 S 11 15.4	134 13.7 N 4 23.1	59.2	Castor	245	57.7	N 31 50.1
03	161 02.7	222 33.1 S 20 51.5	259 18.9 S 21 52.5	240 48.4 S 23 48.6	126 54.5 N 12 30.3	183 47.3 S 11 15.3	148 44.9 N 4 39.6	59.2	Deneb	49	26.8	N 45 21.9
04	176 05.2	237 32.9 S 20 51.0	274 18.1 S 21 52.8	255 48.8 S 23 48.5	141 56.8 N 12 30.3	198 49.5 S 11 15.2	163 16.1 N 4 56.1	59.1	Denebola	182	25.6	N 14 26.2
05	191 07.6	252 32.7 S 20 50.5	289 17.3 S 21 53.1	270 49.2 S 23 48.4	156 59.1 N 12 30.4	213 51.7 S 11 15.1	177 47.3 N 5 12.5	59.1				
06	206 10.1	267 32.5 S 20 50.0	304 16.4 S 21 53.4	285 49.7 S 23 48.3	172 01.5 N 12 30.5	228 54.0 S 11 15.0	192 18.5 N 5 28.9	59.1	Diphda	348	48.2	S 17 51.5
07	221 12.6	282 32.3 S 20 49.5	319 15.6 S 21 53.6	300 50.1 S 23 48.2	187 03.8 N 12 30.5	243 56.2 S 11 14.9	206 49.7 N 5 45.2	59.1	Dubhe	193	41.5	N 61 37.0
08	236 15.0	297 32.1 S 20 49.1	334 14.8 S 21 53.9	315 50.5 S 23 48.1	202 06.1 N 12 30.6	258 58.4 S 11 14.8	221 20.9 N 6 01.5	59.0	Elnath	278	02.6	N 28 37.7
09	251 17.5	312 31.8 S 20 48.6	349 13.9 S 21 54.2	330 50.9 S 23 48.0	217 08.5 N 12 30.6	274 00.6 S 11 14.7	235 52.0 N 6 17.8	59.0	Etamin	90	43.0	N 51 28.9
10	266 19.9	327 31.6 S 20 48.1	4 13.1 S 21 54.5	345 51.3 S 23 47.9	232 10.8 N 12 30.7	289 02.8 S 11 14.6	250 23.2 N 6 34.0	59.0	Enif	33	39.9	N 9 59.0
11	281 22.4	342 31.4 S 20 47.6	19 12.3 S 21 54.8	0 51.7 S 23 47.8	247 13.1 N 12 30.8	304 05.0 S 11 14.5	264 54.4 N 6 50.2	59.0				
12	296 24.9	357 31.2 S 20 47.1	34 11.4 S 21 55.0	15 52.1 S 23 47.6	262 15.4 N 12 30.8	319 07.3 S 11 14.4	279 25.6 N 7 06.3	58.9	Fomalhaut	15	15.6	S 29 29.4
13	311 27.3	12 31.0 S 20 46.6	49 10.6 S 21 55.3	30 52.5 S 23 47.5	277 17.8 N 12 30.9	334 09.5 S 11 14.3	293 56.7 N 7 22.4	58.9	Gacrux	171	52.4	S 57 14.6
14	326 29.8	27 30.8 S 20 46.1	64 09.8 S 21 55.6	45 52.9 S 23 47.4	292 20.1 N 12 30.9	349 11.7 S 11 14.2	308 27.9 N 7 38.4	58.9	Gienah	175	44.3	S 17 40.5
15	341 32.3	42 30.6 S 20 45.6	79 08.9 S 21 55.9	60 53.3 S 23 47.3	307 22.4 N 12 31.0	4 13.9 S 11 14.1	322 59.0 N 7 54.4	58.9	Hadar	148	37.3	S 60 29.0
16	356 34.7	57 30.4 S 20 45.1	94 08.1 S 21 56.1	75 53.8 S 23 47.2	322 24.7 N 12 31.1	19 16.1 S 11 14.0	337 30.1 N 8 10.3	58.8	Hamal	327	52.1	N 23 34.6
17	11 37.2	72 30.2 S 20 44.6	109 07.3 S 21 56.4	90 54.2 S 23 47.1	337 27.1 N 12 31.1	34 18.3 S 11 13.9	352 01.3 N 8 26.2	58.8				
18	26 39.7	87 30.0 S 20 44.2	124 06.4 S 21 56.7	105 54.6 S 23 46.9	352 29.4 N 12 31.2	49 20.6 S 11 13.8	6 32.3 N 8 42.0	58.8	Kaus aust.	83	34.0	S 34 22.4
19	41 42.1	102 29.8 S 20 43.7	139 05.6 S 21 56.9	120 55.0 S 23 46.8	7 31.7 N 12 31.3	64 22.8 S 11 13.7	21 03.4 N 8 57.7	58.8	Kochab	137	20.1	N 74 03.0
20	56 44.6	117 29.6 S 20 43.2	154 04.8 S 21 57.2	135 55.4 S 23 46.7	22 34.0 N 12 31.3	79 25.0 S 11 13.6	35 34.5 N 9 13.4	58.7	Markab	13	30.9	N 15 20.1
21	71 47.1	132 29.4 S 20 42.7	169 03.9 S 21 57.5	150 55.8 S 23 46.6	37 36.4 N 12 31.4	94 27.2 S 11 13.5	50 05.5 N 9 29.0	58.7	Menkar	314	06.9	N 4 11.0
22	86 49.5	147 29.2 S 20 42.2	184 03.1 S 21 57.7	165 56.2 S 23 46.5	52 38.7 N 12 31.4	109 29.4 S 11 13.4	64 36.6 N 9 44.6	58.7	Menkent	147	58.6	S 36 29.1
23	101 52.0	162 28.9 S 20 41.7	199 02.3 S 21 58.0	180 56.6 S 23 46.4	67 41.0 N 12 31.5	124 31.6 S 11 13.3	79 07.6 N 10 00.1	58.7				
18 00	116 54.4	177 28.7 S 20 41.2	214 01.4 S 21 58.3	195 57.0 S 23 46.2	82 43.3 N 12 31.6	139 33.9 S 11 13.2	93 38.6 N 10 15.6	58.6	Miaplacidus	221	37.6	S 69 48.8
01	131 56.9	192 28.5 S 20 40.7	229 00.6 S 21 58.5	210 57.5 S 23 46.1	97 45.6 N 12 31.6	154 36.1 S 11 13.1	108 09.5 N 10 30.9	58.6	Mirfak	308	29.2	N 49 57.0
02	146 59.4	207 28.3 S 20 40.2	243 59.8 S 21 58.8	225 57.9 S 23 46.0	112 48.0 N 12 31.7	169 38.3 S 11 13.0	122 40.5 N 10 46.3	58.6	Mizar	158	46.5	N 54 47.1
03	162 01.8	222 28.1 S 20 39.7	258 58.9 S 21 59.0	240 58.3 S 23 45.9	127 50.3 N 12 31.7	184 40.5 S 11 12.9	137 11.4 N 11 01.5	58.5	Nunki	75	49.1	S 26 16.7
04	177 04.3	237 27.9 S 20 39.2	273 58.1 S 21 59.3	255 58.7 S 23 45.8	142 52.6 N 12 31.8	199 42.7 S 11 12.8	151 42.3 N 11 16.7	58.5	Peacock	53	07.6	S 56 39.6
05	192 06.8	252 27.7 S 20 38.7	288 57.3 S 21 59.6	270 59.1 S 23 45.6	157 54.9 N 12 31.9	214 44.9 S 11 12.7	166 13.2 N 11 31.8	58.5	Polaris	314	14.7	N 89 22.2
06	207 09.2	267 27.5 S 20 38.2	303 56.4 S 21 59.8	285 59.5 S 23 45.5	172 57.2 N 12 31.9	229 47.1 S 11 12.6	180 44.0 N 11 46.8	58.5	Pollux	243	17.9	N 27 58.0
07	222 11.7	282 27.3 S 20 37.7	318 55.6 S 22 00.1	300 59.9 S 23 45.4	187 59.6 N 12 32.0	244 49.4 S 11 12.5	195 14.8 N 12 01.8	58.4	Procyon	244	51.3	N 5 09.8
08	237 14.2	297 27.1 S 20 37.2	333 54.7 S 22 00.3	316 00.3 S 23 45.3	203 01.9 N 12 32.1	259 51.6 S 11 12.4	209 45.6 N 12 16.7	58.4				

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	GENNAIO	19
d h	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "
19 00	117 53.6	177 23.9 S 20 29.0	213 41.3 S 22 04.2	196 06.9 S 23 43.2	83 38.9 N 12 33.1	140 27.0 S 11 10.9	81 53.2 N 16 04.1	58.0	NOME	360 - AR	Dec.	
01	132 56.0	192 23.7 S 20 28.5	228 40.5 S 22 04.5	211 07.3 S 23 43.1	98 41.3 N 12 33.1	155 29.2 S 11 10.8	96 23.3 N 16 17.6	58.0	Acamar	315 12.2	S 40 12.7	
02	147 58.5	207 23.5 S 20 28.0	243 39.6 S 22 04.7	226 07.7 S 23 43.0	113 43.6 N 12 33.2	170 31.4 S 11 10.7	110 53.4 N 16 31.0	57.9	Achernar	335 20.8	S 57 07.2	
03	163 01.0	222 23.3 S 20 27.5	258 38.8 S 22 05.0	241 08.1 S 23 42.9	128 45.9 N 12 33.3	185 33.6 S 11 10.6	125 23.5 N 16 44.3	57.9	AcruX	173 00.8	S 63 13.7	
04	178 03.4	237 23.1 S 20 27.0	273 37.9 S 22 05.2	256 08.5 S 23 42.7	143 48.2 N 12 33.3	200 35.9 S 11 10.5	139 53.4 N 16 57.5	57.9	Adhara	255 06.1	S 29 00.3	
05	193 05.9	252 22.9 S 20 26.5	288 37.1 S 22 05.4	271 08.9 S 23 42.6	158 50.5 N 12 33.4	215 38.1 S 11 10.4	154 23.4 N 17 10.6	57.9	Aldebaran	290 40.3	N 16 33.5	
06	208 08.4	267 22.8 S 20 25.9	303 36.3 S 22 05.6	286 09.4 S 23 42.5	173 52.8 N 12 33.5	230 40.3 S 11 10.3	168 53.3 N 17 23.5	57.8				
07	223 10.8	282 22.6 S 20 25.4	318 35.4 S 22 05.9	301 09.8 S 23 42.3	188 55.1 N 12 33.5	245 42.5 S 11 10.2	183 23.1 N 17 36.4	57.8	Alioth	166 13.5	N 55 49.5	
08	238 13.3	297 22.4 S 20 24.9	333 34.6 S 22 06.1	316 10.2 S 23 42.2	203 57.4 N 12 33.6	260 44.7 S 11 10.1	197 52.9 N 17 49.2	57.8	Alkaid	152 52.6	N 49 11.3	
09	253 15.8	312 22.2 S 20 24.4	348 33.7 S 22 06.3	331 10.6 S 23 42.1	218 59.8 N 12 33.6	275 46.9 S 11 10.0	212 22.7 N 18 01.9	57.8	Alnair	27 34.3	S 46 50.9	
10	268 18.2	327 22.0 S 20 23.9	3 32.9 S 22 06.6	346 11.0 S 23 41.9	234 02.1 N 12 33.7	290 49.1 S 11 09.9	226 52.4 N 18 14.5	57.7	Alnilam	275 38.3	S 1 11.2	
11	283 20.7	342 21.8 S 20 23.4	18 32.0 S 22 06.8	1 11.4 S 23 41.8	249 04.4 N 12 33.8	305 51.4 S 11 09.8	241 22.0 N 18 27.0	57.7	Alphard	217 48.2	S 8 45.8	
12	298 23.2	357 21.6 S 20 22.8	33 31.2 S 22 07.0	16 11.8 S 23 41.7	264 06.7 N 12 33.8	320 53.6 S 11 09.7	255 51.6 N 18 39.4	57.7				
13	313 25.6	12 21.4 S 20 22.3	48 30.3 S 22 07.2	31 12.2 S 23 41.5	279 09.0 N 12 33.9	335 55.8 S 11 09.6	270 21.1 N 18 51.7	57.7	Alphecca	126 04.6	N 26 37.8	
14	328 28.1	27 21.2 S 20 21.8	63 29.5 S 22 07.4	46 12.6 S 23 41.4	294 11.3 N 12 34.0	350 58.0 S 11 09.5	284 50.6 N 19 03.8	57.6	Alpheratz	357 35.8	N 29 13.5	
15	343 30.5	42 21.0 S 20 21.3	78 28.7 S 22 07.7	61 13.0 S 23 41.2	309 13.6 N 12 34.0	6 00.2 S 11 09.4	299 20.1 N 19 15.9	57.6	Altair	62 01.1	N 8 55.8	
16	358 33.0	57 20.8 S 20 20.7	93 27.8 S 22 07.9	76 13.5 S 23 41.1	324 15.9 N 12 34.1	21 02.4 S 11 09.3	313 49.5 N 19 27.8	57.6	Ankaa	353 08.1	S 42 10.8	
17	13 35.5	72 20.6 S 20 20.2	108 27.0 S 22 08.1	91 13.9 S 23 41.0	339 18.2 N 12 34.2	36 04.6 S 11 09.2	328 18.8 N 19 39.7	57.5	Antares	112 17.1	S 26 29.1	
18	28 37.9	87 20.4 S 20 19.7	123 26.1 S 22 08.3	106 14.3 S 23 40.8	354 20.5 N 12 34.2	51 06.8 S 11 09.1	342 48.1 N 19 51.4	57.5				
19	43 40.4	102 20.2 S 20 19.2	138 25.3 S 22 08.5	121 14.7 S 23 40.7	9 22.9 N 12 34.3	66 09.1 S 11 09.0	357 17.3 N 20 03.0	57.5	Arcturus	145 48.7	N 19 03.3	
20	58 42.9	117 20.1 S 20 18.6	153 24.4 S 22 08.8	136 15.1 S 23 40.6	24 25.2 N 12 34.4	81 11.3 S 11 08.9	11 46.5 N 20 14.5	57.5	Atria	107 12.5	S 69 04.0	
21	73 45.3	132 19.9 S 20 18.1	168 23.6 S 22 09.0	151 15.5 S 23 40.4	39 27.5 N 12 34.4	96 13.5 S 11 08.8	26 15.6 N 20 25.9	57.4	Avior	234 14.4	S 59 35.1	
22	88 47.8	147 19.7 S 20 17.6	183 22.7 S 22 09.2	166 15.9 S 23 40.3	54 29.8 N 12 34.5	111 15.7 S 11 08.7	40 44.6 N 20 37.2	57.4	Bellatrix	278 23.5	N 6 22.3	
23	103 50.3	162 19.5 S 20 17.0	198 21.9 S 22 09.4	181 16.3 S 23 40.1	69 32.1 N 12 34.6	126 17.9 S 11 08.6	55 13.7 N 20 48.3	57.4	Betelgeuse	270 52.7	N 7 24.7	
20 00	118 52.7	177 19.3 S 20 16.5	213 21.0 S 22 09.6	196 16.7 S 23 40.0	84 34.4 N 12 34.6	141 20.3 S 11 08.5	69 42.6 N 20 59.4	57.4	Canopus	263 52.2	S 52 42.6	
01	133 55.2	192 19.1 S 20 16.0	228 20.2 S 22 09.8	211 17.1 S 23 39.9	99 36.7 N 12 34.7	156 22.1 S 11 08.4	84 11.5 N 21 10.3	57.3	Capella	280 22.7	N 46 01.4	
02	148 57.7	207 18.9 S 20 15.5	243 19.3 S 22 10.0	226 17.6 S 23 39.7	114 39.0 N 12 34.8	171 24.5 S 11 08.3	98 40.3 N 21 21.1	57.3	Castor	245 57.7	N 31 50.1	
03	164 00.1	222 18.7 S 20 14.9	258 18.5 S 22 10.2	241 18.0 S 23 39.6	129 41.3 N 12 34.8	186 26.7 S 11 08.2	113 09.1 N 21 31.8	57.3	Deneb	49 26.8	N 45 21.9	
04	179 02.6	237 18.5 S 20 14.4	273 17.7 S 22 10.4	256 18.4 S 23 39.4	144 43.6 N 12 34.9	201 29.0 S 11 08.1	127 37.9 N 21 42.3	57.3	Denebola	182 25.6	N 44 26.2	
05	194 05.0	252 18.4 S 20 13.9	288 16.8 S 22 10.6	271 18.8 S 23 39.3	159 45.9 N 12 35.0	216 31.2 S 11 08.0	142 06.5 N 21 52.8	57.2				
06	209 07.5	267 18.2 S 20 13.3	303 16.0 S 22 10.8	286 19.2 S 23 39.1	174 48.2 N 12 35.0	231 33.4 S 11 07.9	156 35.2 N 22 03.1	57.2	Diphda	348 48.2	S 17 51.5	
07	224 10.0	282 18.0 S 20 12.8	318 15.1 S 22 11.0	301 19.6 S 23 39.0	189 50.5 N 12 35.1	246 35.6 S 11 07.8	171 03.7 N 22 13.3	57.2	Dubhe	193 41.5	N 61 37.0	
08	239 12.4	297 17.8 S 20 12.3	333 14.3 S 22 11.2	316 20.0 S 23 38.9	204 52.8 N 12 35.2	261 37.8 S 11 07.7	185 32.2 N 22 23.3	57.2	Elnath	278 02.6	N 28 37.7	
09	254 14.9	312 17.6 S 20 11.7	348 13.4 S 22 11.4	331 20.4 S 23 38.7	219 55.1 N 12 35.2	276 40.0 S 11 07.6	200 00.7 N 22 33.3	57.1	Etamin	90 43.0	N 51 28.9	
10	269 17.4	327 17.4 S 20 11.2	3 12.6 S 22 11.6	346 20.8 S 23 38.6	234 57.4 N 12 35.3	291 42.2 S 11 07.5	214 29.1 N 22 43.1	57.1	Enif	33 39.9	N 9 59.0	
11	284 19.8	342 17.2 S 20 10.7	18 11.7 S 22 11.8	1 21.3 S 23 38.4	249 59.7 N 12 35.4	306 44.4 S 11 07.4	228 57.5 N 22 52.8	57.1				
12	299 22.3	357 17.1 S 20 10.1	33 10.9 S 22 12.0	16 21.7 S 23 38.3	265 02.0 N 12 35.4	321 46.7 S 11 07.3	243 25.7 N 23 02.3	57.1	Fomalhaut	15 15.6	S 29 29.9	
13	314 24.8	12 16.9 S 20 09.6	48 10.0 S 22 12.2	31 22.1 S 23 38.1	280 04.3 N 12 35.5	336 48.9 S 11 07.2	257 54.0 N 23 11.7	57.1	Gacrux	171 52.4	S 57 14.6	
14	329 27.2	27 16.7 S 20 09.0	63 09.2 S 22 12.4	46 22.5 S 23 38.0	295 06.6 N 12 35.6	351 51.1 S 11 07.1	272 22.2 N 23 21.0	57.0	Gienah	175 44.3	S 17 40.5	
15	344 29.7	42 16.5 S 20 08.5	78 08.3 S 22 12.6	61 22.9 S 23 37.8	310 08.9 N 12 35.6	6 53.3 S 11 07.0	286 50.3 N 23 30.2	57.0	Hadar	148 37.2	S 60 29.0	
16	359 32.2	57 16.3 S 20 08.0	93 07.5 S 22 12.8	76 23.3 S 23 37.7	325 11.2 N 12 35.7	21 55.5 S 11 06.9	301 18.4 N 23 39.2	57.0	Hamal	327 52.1	N 23 34.6	
17	14 34.6	72 16.1 S 20 07.4	108 06.6 S 22 13.0	91 23.7 S 23 37.5	340 13.5 N 12 35.8	36 57.7 S 11 06.8	315 46.4 N 23 48.1	57.0				
18	29 37.1	87 15.9 S 20 06.9	123 05.8 S 22 13.2	106 24.1 S 23 37.4	355 15.8 N 12 35.8	51 59.9 S 11 06.7	330 14.4 N 23 56.9	56.9	Kaus aust.	83 34.0	S 34 22.4	
19	44 39.5	102 15.8 S 20 06.3	138 04.9 S 22 13.4	121 24.5 S 23 37.2	10 18.1 N 12 35.9	67 02.1 S 11 06.6	344 42.3 N 24 05.5	56.9	Kochab	137 20.1	N 74 03.0	
20	59 42.0	117 15.6 S 20 05.8	153 04.1 S 22 13.6	136 24.9 S 23 37.1	25 20.4 N 12 36.0	82 04.3 S 11 06.5	359 10.2 N 24 14.0	56.9	Markab	13 30.9	N 15 20.0	
21	74 44.5	132 15.4 S 20 05.2	168 03.2 S 22 13.8	151 25.4 S 23 36.9	40 22.7 N 12 36.1	97 06.5 S 11 06.4	13 38.0 N 24 22.3	56.9	Menkar	314 06.9	N 4 11.0	
22	89 46.9	147 15.2 S 20 04.7	183 02.4 S 22 13.9	166 25.8 S 23 36.8	55 25.0 N 12 36.1	112 08.8 S 11 06.3	28 05.8 N 24 30.5	56.8	Menkent	147 58.6	S 36 29.1	
23	104 49.4	162 15.0 S 20 04.2	198 01.5 S 22 14.1	181 26.2 S 23 36.6	70 27.3 N 12 36.2	127 11.0 S 11 06.2	42 33.5 N 24 38.6	56.8				
21 00	119 51.9	177 14.9 S 20 03.6	213 00.7 S 22 14.3	196 26.6 S 23 36.5	85 29.6 N 12 36.3	142 13.2 S 11 06.1	57 01.2 N 24 46.5	56.8	Miaplacidus	221 37.6	S 69 48.8	
01	134 54.3	192 14.7 S 20 03.1	227 59.8 S 22 14.5	211 27.0 S 23 36.3	100 31.9 N 12 36.3	157 15.4 S 11 06.0	71 28.8 N 24 54.3	56.8	Mirfak	308 29.2	N 49 57.0	
02	149 56.8	207 14.5 S 20 02.5	242 58.9 S 22 14.7	226 27.4 S 23 36.2	115 34.2 N 12 36.4	172 17.6 S 11 05.9	85 56.4 N 25 02.0	56.7	Mizar	158 46.5	N 54 47.7	
03	164 59.3	222 14.3 S 20 02.0	257 58.1 S 22 14.8	241 27.8 S 23 36.0	130 36.5 N 12 36.5	187 19.8 S 11 05.8	100 24.0 N 25 09.5	56.7	Nunki	75 49.1	S 26 16.0	
04	180 01.7	237 14.1 S 20 01.4	272 57.2 S 22 15.0	256 28.2 S 23 35.9	145 38.8 N 12 36.5	202 22.0 S 11 05.7	114 51.5 N 25 16.8	56.7	Peacock	53 07.6	S 56 39.6	
05	195 04.2	252 14.0 S 20 00.9	287 56.4 S 22 15.2	271 28.6 S 23 35.7	160 41.1 N 12 36.6	217 24.2 S 11 05.6	129 18.9 N 25 24.1	56.7	Polaris	314 16.0	N 89 22.2	
06	210 06.6	267 13.8 S 20 00.3	302 55.5 S 22 15.4	286 29.1 S 23 35.6	175 43.4 N 12 36.7	232 26.4 S 11 05.5	143 46.3 N 25 31.1	56.7	Pollux	243 17.9	N 27 58.0	
07	225 09.1	282 13.6 S 19 59.8	317 54.7 S 22 15.6	301 29.5 S 23 35.4	190 45.7 N 12 36.7	247 28.6 S 11 05.4	158 13.7 N 25 38.1	56.6	Procyon	244 51.3	N 5 09.8	
08	240 11.6	297 13.4 S 19 59.2	332 53.8 S 22 15.7	316 29.9 S 23 35.3	205 48.0 N 12 36.8	262						

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	GENNAIO	22
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
22 00	120 51.0	177 10.6	S 19 50.3	212 40.1	S 22 18.4	196 36.4	S 23 32.7	86 24.7	N 12 38.0	143 06.2	S 11 03.7	43 53.2	N 27 13.3	56.3	NOME	360 - AR	Dec.	
01	135 53.5	192 10.4	S 19 49.8	227 39.3	S 22 18.5	211 36.9	S 23 32.6	101 27.0	N 12 38.0	158 08.4	S 11 03.6	58 20.0	N 27 17.5	56.2	Acamar	315 12.2	S 40 12.7	
02	150 55.9	207 10.3	S 19 49.2	242 38.4	S 22 18.7	226 37.3	S 23 32.4	116 29.3	N 12 38.1	173 10.6	S 11 03.5	72 46.8	N 27 21.6	56.2	Achernar	335 20.8	S 57 07.2	
03	165 58.4	222 10.1	S 19 48.7	257 37.6	S 22 18.8	241 37.7	S 23 32.2	131 31.6	N 12 38.2	188 12.8	S 11 03.4	87 13.5	N 27 25.5	56.2	AcruX	173 00.7	S 63 13.7	
04	181 00.9	237 09.9	S 19 48.1	272 36.7	S 22 19.0	256 38.1	S 23 32.1	146 33.9	N 12 38.2	203 15.0	S 11 03.3	101 40.2	N 27 29.3	56.2	Adhara	255 06.1	S 29 00.3	
05	196 03.3	252 09.7	S 19 47.5	287 35.9	S 22 19.1	271 38.5	S 23 31.9	161 36.2	N 12 38.3	218 17.2	S 11 03.2	116 06.9	N 27 32.9	56.1	Aldebaran	290 40.3	N 16 33.5	
06	211 05.8	267 09.6	S 19 47.0	302 35.0	S 22 19.3	286 38.9	S 23 31.7	176 38.5	N 12 38.4	233 19.4	S 11 03.1	130 33.6	N 27 36.4	56.1				
07	226 08.3	282 09.4	S 19 46.4	317 34.1	S 22 19.4	301 39.3	S 23 31.6	191 40.7	N 12 38.5	248 21.7	S 11 03.0	145 00.2	N 27 39.7	56.1	Alioth	166 13.5	N 55 49.5	
08	241 10.7	297 09.2	S 19 45.8	332 33.3	S 22 19.6	316 39.7	S 23 31.4	206 43.0	N 12 38.5	263 23.9	S 11 02.9	159 26.9	N 27 42.8	56.1	Alkaid	152 52.6	N 49 11.3	
09	256 13.2	312 09.1	S 19 45.3	347 32.4	S 22 19.7	331 40.1	S 23 31.2	221 45.3	N 12 38.6	278 26.1	S 11 02.8	173 53.5	N 27 45.8	56.1	Alnair	27 34.3	S 46 50.9	
10	271 15.6	327 08.9	S 19 44.7	2 31.6	S 22 19.9	346 40.6	S 23 31.1	236 47.6	N 12 38.7	293 28.3	S 11 02.7	188 20.2	N 27 48.7	56.0	Alnilam	275 38.3	S 1 11.2	
11	286 18.1	342 08.7	S 19 44.1	17 30.7	S 22 20.0	1 41.0	S 23 30.9	251 49.9	N 12 38.7	308 30.5	S 11 02.6	202 46.8	N 27 51.4	56.0	Alphard	217 48.2	S 8 45.8	
12	301 20.6	357 08.6	S 19 43.6	32 29.9	S 22 20.2	16 41.4	S 23 30.7	266 52.2	N 12 38.8	323 32.7	S 11 02.5	217 13.4	N 27 53.9	56.0				
13	316 23.0	12 08.4	S 19 43.0	47 29.0	S 22 20.3	31 41.8	S 23 30.6	281 54.5	N 12 38.9	338 34.9	S 11 02.4	231 40.1	N 27 56.3	56.0	Alphecca	126 04.6	N 26 37.8	
14	331 25.5	27 08.2	S 19 42.4	62 28.1	S 22 20.4	46 42.2	S 23 30.4	296 56.8	N 12 39.0	353 37.1	S 11 02.3	246 06.7	N 27 58.5	56.0	Alpheratz	357 35.8	N 29 13.4	
15	346 28.0	42 08.0	S 19 41.9	77 27.3	S 22 20.6	61 42.6	S 23 30.2	311 59.0	N 12 39.0	8 39.3	S 11 02.2	260 33.3	N 28 00.5	55.9	Altair	62 01.1	N 8 55.8	
16	1 30.4	57 07.9	S 19 41.3	92 26.4	S 22 20.7	76 43.0	S 23 30.1	327 01.3	N 12 39.1	23 41.5	S 11 02.1	274 59.9	N 28 02.4	55.9	Ankaa	353 08.1	S 42 10.8	
17	16 32.9	72 07.7	S 19 40.7	107 25.6	S 22 20.8	91 43.4	S 23 29.9	342 03.6	N 12 39.2	38 43.7	S 11 02.0	289 26.5	N 28 04.2	55.9	Antares	112 17.0	S 26 29.1	
18	31 35.4	87 07.5	S 19 40.1	122 24.7	S 22 21.0	106 43.8	S 23 29.7	357 05.9	N 12 39.3	53 45.9	S 11 01.9	303 53.2	N 28 05.8	55.9				
19	46 37.8	102 07.4	S 19 39.6	137 23.8	S 22 21.1	121 44.3	S 23 29.6	12 08.2	N 12 39.3	68 48.1	S 11 01.7	318 19.8	N 28 07.2	55.9	Arcturus	145 48.7	N 19 03.3	
20	61 40.3	117 07.2	S 19 39.0	152 23.0	S 22 21.3	136 44.7	S 23 29.4	27 10.5	N 12 39.4	83 50.4	S 11 01.6	332 46.4	N 28 08.5	55.8	Atria	107 12.4	S 69 04.0	
21	76 42.8	132 07.0	S 19 38.4	167 22.1	S 22 21.4	151 45.1	S 23 29.2	42 12.8	N 12 39.5	98 52.6	S 11 01.5	347 13.1	N 28 09.6	55.8	Avior	234 14.4	S 59 35.1	
22	91 45.2	147 06.9	S 19 37.8	182 21.3	S 22 21.5	166 45.5	S 23 29.0	57 15.0	N 12 39.5	113 54.8	S 11 01.4	1 39.7	N 28 10.5	55.8	Bellatrix	278 23.5	N 6 22.3	
23	106 47.7	162 06.7	S 19 37.3	197 20.4	S 22 21.6	181 45.9	S 23 28.9	72 17.3	N 12 39.6	128 57.0	S 11 01.3	16 06.4	N 28 11.3	55.8	Betelgeuse	270 52.7	N 7 24.7	
23 00	121 50.1	177 06.5	S 19 36.7	212 19.5	S 22 21.8	196 46.3	S 23 28.7	87 19.6	N 12 39.7	143 59.2	S 11 01.2	30 33.1	N 28 12.0	55.8	Canopus	263 52.2	S 52 42.6	
01	136 52.6	192 06.4	S 19 36.1	227 18.7	S 22 21.9	211 46.7	S 23 28.5	102 21.9	N 12 39.8	159 01.4	S 11 01.1	44 59.8	N 28 12.5	55.7	Capella	280 22.7	N 46 01.4	
02	151 55.1	207 06.2	S 19 35.5	242 17.8	S 22 22.0	226 47.1	S 23 28.4	117 24.2	N 12 39.8	174 03.6	S 11 01.0	59 26.5	N 28 12.8	55.7	Castor	245 57.7	N 31 50.1	
03	166 57.5	222 06.1	S 19 35.0	257 17.0	S 22 22.2	241 47.5	S 23 28.2	132 26.5	N 12 39.9	189 05.8	S 11 00.9	73 53.2	N 28 13.0	55.7	Deneb	49 26.8	N 45 21.9	
04	182 00.0	237 05.9	S 19 34.4	272 16.1	S 22 22.3	256 48.0	S 23 28.0	147 28.7	N 12 40.0	204 08.0	S 11 00.8	88 20.0	N 28 13.0	55.7	Denebola	182 25.6	N 14 26.1	
05	197 02.5	252 05.7	S 19 33.8	287 15.2	S 22 22.4	271 48.4	S 23 27.8	162 31.0	N 12 40.1	219 10.2	S 11 00.7	102 46.8	N 28 12.9	55.7				
06	212 04.9	267 05.6	S 19 33.2	302 14.4	S 22 22.5	286 48.8	S 23 27.7	177 33.3	N 12 40.1	234 12.4	S 11 00.6	117 13.6	N 28 12.6	55.7	Diphda	348 48.2	S 17 51.5	
07	227 07.4	282 05.4	S 19 32.6	317 13.5	S 22 22.6	301 49.2	S 23 27.5	192 35.6	N 12 40.2	249 14.6	S 11 00.5	131 40.4	N 28 12.2	55.6	Dubhe	193 41.5	N 61 37.0	
08	242 09.9	297 05.2	S 19 32.1	332 12.6	S 22 22.8	316 49.6	S 23 27.3	207 37.9	N 12 40.3	264 16.8	S 11 00.4	146 07.3	N 28 11.6	55.6	Elnath	278 02.6	N 28 37.7	
09	257 12.3	312 05.1	S 19 31.5	347 11.8	S 22 22.9	331 50.0	S 23 27.1	222 40.1	N 12 40.4	279 19.0	S 11 00.3	160 34.1	N 28 10.9	55.6	Etamin	90 43.0	N 51 28.9	
10	272 14.8	327 04.9	S 19 30.9	2 10.9	S 22 23.0	346 50.4	S 23 26.9	237 42.4	N 12 40.4	294 21.2	S 11 00.2	175 01.1	N 28 10.0	55.6	Enif	33 39.9	N 9 59.0	
11	287 17.3	342 04.8	S 19 30.3	17 10.1	S 22 23.1	1 50.8	S 23 26.8	252 44.7	N 12 40.5	309 23.5	S 11 00.1	189 28.0	N 28 08.9	55.6				
12	302 19.7	357 04.6	S 19 29.7	32 09.2	S 22 23.2	16 51.2	S 23 26.6	267 47.0	N 12 40.6	324 25.7	S 11 00.0	203 55.0	N 28 07.7	55.5	Fomalhaut	15 15.6	S 29 29.9	
13	317 22.2	12 04.4	S 19 29.1	47 08.3	S 22 23.3	31 51.7	S 23 26.4	282 49.3	N 12 40.7	339 27.9	S 10 59.9	218 22.0	N 28 06.4	55.5	Gacrux	171 52.3	S 57 14.6	
14	332 24.6	27 04.3	S 19 28.6	62 07.5	S 22 23.5	46 52.1	S 23 26.2	297 51.5	N 12 40.7	354 30.1	S 10 59.8	232 49.0	N 28 04.8	55.5	Gienah	175 44.3	S 17 40.5	
15	347 27.1	42 04.1	S 19 28.0	77 06.6	S 22 23.6	61 52.5	S 23 26.1	312 53.8	N 12 40.8	9 32.3	S 10 59.7	247 16.1	N 28 03.2	55.5	Hadar	148 37.2	S 60 29.1	
16	2 29.6	57 04.0	S 19 27.4	92 05.7	S 22 23.7	76 52.9	S 23 25.9	327 56.1	N 12 40.9	24 34.5	S 10 59.6	261 43.3	N 28 01.4	55.5	Hamal	327 52.1	N 23 34.6	
17	17 32.0	72 03.8	S 19 26.8	107 04.9	S 22 23.8	91 53.3	S 23 25.7	342 58.4	N 12 41.0	39 36.7	S 10 59.5	276 10.4	N 27 59.4	55.5				
18	32 34.5	87 03.6	S 19 26.2	122 04.0	S 22 23.9	106 53.7	S 23 25.5	358 00.7	N 12 41.0	54 38.9	S 10 59.4	290 37.6	N 27 57.3	55.4	Kaus aust.	83 33.9	S 34 22.4	
19	47 37.0	102 03.5	S 19 25.6	137 03.2	S 22 24.0	121 54.1	S 23 25.3	13 02.9	N 12 41.1	69 41.1	S 10 59.3	305 04.9	N 27 55.1	55.4	Kochab	137 20.0	N 74 03.0	
20	62 39.4	117 03.3	S 19 25.0	152 02.3	S 22 24.1	136 54.5	S 23 25.2	28 05.2	N 12 41.2	84 43.3	S 10 59.2	319 32.2	N 27 52.7	55.4	Markab	13 30.9	N 15 20.0	
21	77 41.9	132 03.2	S 19 24.5	167 01.4	S 22 24.2	151 54.9	S 23 25.0	43 07.5	N 12 41.3	99 45.5	S 10 59.1	333 59.6	N 27 50.1	55.4	Menkar	314 06.9	N 4 11.0	
22	92 44.4	147 03.0	S 19 23.9	182 00.6	S 22 24.3	166 55.4	S 23 24.8	58 09.8	N 12 41.3	114 47.7	S 10 59.0	348 27.0	N 27 47.4	55.4	Menkent	147 58.6	S 36 29.1	
23	107 46.8	162 02.8	S 19 23.3	196 59.7	S 22 24.4	181 55.8	S 23 24.6	73 12.0	N 12 41.4	129 49.9	S 10 58.9	2 54.4	N 27 44.6	55.3				
24 00	122 49.3	177 02.7	S 19 22.7	211 58.8	S 22 24.5	196 56.2	S 23 24.4	88 14.3	N 12 41.5	144 52.1	S 10 58.8	17 21.9	N 27 41.6	55.3	Miaplacidus	221 37.6	S 69 48.8	
01	137 51.8	192 02.5	S 19 22.1	226 58.0	S 22 24.6	211 56.6	S 23 24											

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	GENNAIO	25					
d h	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "					
25 00	123 48.4	176 59.0	S 19 08.3	211 38.1	S 22 26.6	197 06.1	S 23 19.9	89 08.8	N 12 43.4	145 45.0	S 10 56.3	4 40.3	N 25 48.3	54.9	NOME	360 - AR	Dec.
01	138 50.9	191 58.9	S 19 07.7	226 37.2	S 22 26.7	212 06.5	S 23 19.7	104 11.1	N 12 43.4	160 47.2	S 10 56.2	19 09.5	N 25 41.9	54.9	Acamar	315 12.3	S 40 12.7
02	153 53.4	206 58.7	S 19 07.1	241 36.3	S 22 26.8	227 06.9	S 23 19.5	119 13.4	N 12 43.5	175 49.4	S 10 56.1	33 38.7	N 25 35.4	54.9	Achernar	335 20.8	S 57 07.2
03	168 55.8	221 58.6	S 19 06.5	256 35.5	S 22 26.8	242 07.3	S 23 19.3	134 15.7	N 12 43.6	190 51.6	S 10 56.0	48 08.0	N 25 28.8	54.9	Acruz	173 00.7	S 63 13.7
04	183 58.3	236 58.4	S 19 05.9	271 34.6	S 22 26.9	257 07.7	S 23 19.1	149 17.9	N 12 43.7	205 53.8	S 10 55.9	62 37.4	N 25 22.1	54.9	Adhara	255 06.1	S 29 00.3
05	199 00.7	251 58.3	S 19 05.3	286 33.7	S 22 27.0	272 08.1	S 23 18.9	164 20.2	N 12 43.8	220 56.0	S 10 55.8	77 06.9	N 25 15.2	54.9	Aldebaran	290 40.3	N 16 33.5
06	214 03.2	266 58.1	S 19 04.7	301 32.9	S 22 27.0	287 08.5	S 23 18.7	179 22.5	N 12 43.8	235 58.2	S 10 55.7	91 36.4	N 25 08.3	54.8			
07	229 05.7	281 58.0	S 19 04.1	316 32.0	S 22 27.1	302 09.0	S 23 18.5	194 24.7	N 12 43.9	251 00.5	S 10 55.6	106 06.0	N 25 01.2	54.8	Alioth	166 13.4	N 55 49.5
08	244 08.1	296 57.8	S 19 03.5	331 31.1	S 22 27.2	317 09.4	S 23 18.3	209 27.0	N 12 44.0	266 02.7	S 10 55.5	120 35.7	N 24 54.0	54.8	Alkaid	152 52.6	N 49 11.3
09	259 10.6	311 57.7	S 19 02.8	346 30.3	S 22 27.2	332 09.8	S 23 18.1	224 29.3	N 12 44.1	281 04.9	S 10 55.4	135 05.5	N 24 46.7	54.8	Alnair	27 34.3	S 46 50.9
10	274 13.1	326 57.6	S 19 02.2	1 29.4	S 22 27.3	347 10.2	S 23 17.9	239 31.5	N 12 44.2	296 07.1	S 10 55.3	149 35.4	N 24 39.2	54.8	Alnilam	275 38.3	S 1 11.2
11	289 15.5	341 57.4	S 19 01.6	16 28.5	S 22 27.4	2 10.6	S 23 17.7	254 33.8	N 12 44.2	311 09.3	S 10 55.2	164 05.3	N 24 31.7	54.8	Alphard	217 48.2	S 8 45.8
12	304 18.0	356 57.3	S 19 01.0	31 27.6	S 22 27.4	17 11.0	S 23 17.5	269 36.0	N 12 44.3	326 11.5	S 10 55.1	178 35.3	N 24 24.0	54.8			
13	319 20.5	11 57.1	S 19 00.4	46 26.8	S 22 27.5	32 11.4	S 23 17.3	284 38.3	N 12 44.4	341 13.7	S 10 55.0	193 05.4	N 24 16.3	54.7	Alphecca	126 04.5	N 26 37.8
14	334 22.9	26 57.0	S 18 59.8	61 25.9	S 22 27.5	47 11.8	S 23 17.1	299 40.6	N 12 44.5	356 15.9	S 10 54.9	207 35.6	N 24 08.4	54.7	Alpheratz	357 35.8	N 29 13.4
15	349 25.4	41 56.8	S 18 59.2	76 25.0	S 22 27.6	62 12.3	S 23 16.9	314 42.8	N 12 44.6	11 18.1	S 10 54.8	222 05.9	N 24 00.4	54.7	Altair	62 01.1	N 8 55.8
16	4 27.9	56 56.7	S 18 58.5	91 24.2	S 22 27.6	77 12.7	S 23 16.7	329 45.1	N 12 44.6	26 20.3	S 10 54.7	236 36.3	N 23 52.3	54.7	Ankaa	353 08.1	S 42 10.8
17	19 30.3	71 56.5	S 18 57.9	106 23.3	S 22 27.7	92 13.1	S 23 16.5	344 47.4	N 12 44.7	41 22.5	S 10 54.6	251 06.7	N 23 44.1	54.7	Antares	112 17.0	S 26 29.1
18	34 32.8	86 56.4	S 18 57.3	121 22.4	S 22 27.8	107 13.5	S 23 16.3	359 49.6	N 12 44.8	56 24.7	S 10 54.5	265 37.2	N 23 35.8	54.7			
19	49 35.2	101 56.3	S 18 56.7	136 21.6	S 22 27.8	122 13.9	S 23 16.1	14 51.9	N 12 44.9	71 26.9	S 10 54.4	280 07.8	N 23 27.4	54.7	Arcturus	145 48.6	N 19 03.2
20	64 37.7	116 56.1	S 18 56.1	151 20.7	S 22 27.9	137 14.3	S 23 15.9	29 54.2	N 12 45.0	86 29.1	S 10 54.3	294 38.5	N 23 18.8	54.7	Atria	107 12.3	S 69 04.0
21	79 40.2	131 56.0	S 18 55.5	166 19.8	S 22 27.9	152 14.7	S 23 15.7	44 56.4	N 12 45.0	101 31.3	S 10 54.2	309 09.3	N 23 10.2	54.6	Avior	234 14.4	S 59 35.2
22	94 42.6	146 55.8	S 18 54.8	181 19.0	S 22 28.0	167 15.2	S 23 15.5	59 58.7	N 12 45.1	116 33.5	S 10 54.1	323 40.2	N 23 01.5	54.6	Bellatrix	278 23.5	N 6 22.3
23	109 45.1	161 55.7	S 18 54.2	196 18.1	S 22 28.0	182 15.6	S 23 15.3	75 00.9	N 12 45.2	131 35.7	S 10 54.0	338 11.1	N 22 52.7	54.6	Betelgeuse	270 52.7	N 7 24.7
26 00	124 47.6	176 55.6	S 18 53.6	211 17.2	S 22 28.1	197 16.0	S 23 15.1	90 03.2	N 12 45.3	146 37.9	S 10 53.9	352 42.1	N 22 43.7	54.6	Canopus	263 52.3	S 52 42.6
01	139 50.0	191 55.4	S 18 53.0	226 16.4	S 22 28.1	212 16.4	S 23 14.9	105 05.5	N 12 45.4	161 40.1	S 10 53.8	7 13.2	N 22 34.7	54.6	Capella	280 22.7	N 46 01.4
02	154 52.5	206 55.3	S 18 52.4	241 15.5	S 22 28.1	227 16.8	S 23 14.7	120 07.7	N 12 45.4	176 42.3	S 10 53.7	21 44.4	N 22 25.6	54.6	Castor	245 57.7	N 31 50.1
03	169 55.0	221 55.1	S 18 51.7	256 14.6	S 22 28.2	242 17.2	S 23 14.5	135 10.0	N 12 45.5	191 44.5	S 10 53.6	36 15.7	N 22 16.4	54.6	Deneb	49 26.8	N 45 21.9
04	184 57.4	236 55.0	S 18 51.1	271 13.7	S 22 28.2	257 17.6	S 23 14.3	150 12.2	N 12 45.6	206 46.7	S 10 53.4	50 47.1	N 22 07.1	54.6	Denebola	182 25.5	N 14 26.1
05	199 59.9	251 54.9	S 18 50.5	286 12.9	S 22 28.3	272 18.0	S 23 14.1	165 14.5	N 12 45.7	221 48.9	S 10 53.3	65 18.5	N 21 57.7	54.5			
06	215 02.4	266 54.7	S 18 49.9	301 12.0	S 22 28.3	287 18.5	S 23 13.9	180 16.8	N 12 45.8	236 51.1	S 10 53.2	79 50.1	N 21 48.2	54.5	Diphda	348 48.2	S 17 51.5
07	230 04.8	281 54.6	S 18 49.2	316 11.1	S 22 28.3	302 18.9	S 23 13.7	195 19.0	N 12 45.9	251 53.3	S 10 53.1	94 21.7	N 21 38.6	54.5	Dubhe	193 41.4	N 61 37.0
08	245 07.3	296 54.4	S 18 48.6	331 10.3	S 22 28.4	317 19.3	S 23 13.4	210 21.3	N 12 45.9	266 55.5	S 10 53.0	108 53.4	N 21 28.9	54.5	Elnath	278 02.6	N 28 37.7
09	260 09.7	311 54.3	S 18 48.0	346 09.4	S 22 28.4	332 19.7	S 23 13.2	225 23.5	N 12 46.0	281 57.7	S 10 52.9	123 25.1	N 21 19.1	54.5	Etamin	90 43.0	N 51 28.9
10	275 12.2	326 54.2	S 18 47.4	1 08.5	S 22 28.5	347 20.1	S 23 13.0	240 25.8	N 12 46.1	296 59.9	S 10 52.8	137 57.0	N 21 09.3	54.5	Enif	33 39.9	N 9 59.0
11	290 14.7	341 54.0	S 18 46.7	16 07.7	S 22 28.5	2 20.5	S 23 12.8	255 28.1	N 12 46.2	312 02.1	S 10 52.7	152 28.9	N 20 59.3	54.5			
12	305 17.1	356 53.9	S 18 46.1	31 06.8	S 22 28.5	17 20.9	S 23 12.6	270 30.3	N 12 46.3	327 04.3	S 10 52.6	167 00.9	N 20 49.3	54.5	Fomalhaut	15 15.6	S 29 29.9
13	320 19.6	11 53.8	S 18 45.5	46 05.9	S 22 28.5	32 21.4	S 23 12.4	285 32.6	N 12 46.3	342 06.5	S 10 52.5	181 33.0	N 20 39.2	54.4	Gacrux	171 52.3	S 57 14.6
14	335 22.1	26 53.6	S 18 44.9	61 05.0	S 22 28.6	47 21.8	S 23 12.2	300 34.8	N 12 46.4	357 08.7	S 10 52.4	196 05.2	N 20 29.0	54.4	Gienah	175 44.2	S 17 40.5
15	350 24.5	41 53.5	S 18 44.2	76 04.2	S 22 28.6	62 22.2	S 23 12.0	315 37.1	N 12 46.5	12 10.9	S 10 52.3	210 37.5	N 20 18.7	54.4	Hadar	148 37.1	S 60 29.1
16	5 27.0	56 53.4	S 18 43.6	91 03.3	S 22 28.6	77 22.6	S 23 11.8	330 39.3	N 12 46.6	27 13.1	S 10 52.2	225 09.8	N 20 08.3	54.4	Hamal	327 52.1	N 23 34.6
17	20 29.5	71 53.2	S 18 43.0	106 02.4	S 22 28.7	92 23.0	S 23 11.6	345 41.6	N 12 46.7	42 15.3	S 10 52.1	239 42.3	N 19 57.9	54.4			
18	35 31.9	86 53.1	S 18 42.3	121 01.6	S 22 28.7	107 23.4	S 23 11.3	0 43.9	N 12 46.8	57 17.5	S 10 52.0	254 14.8	N 19 47.4	54.4	Kaus aust.	83 33.9	S 34 22.4
19	50 34.4	101 52.9	S 18 41.7	136 00.7	S 22 28.7	122 23.8	S 23 11.1	15 46.1	N 12 46.8	72 19.7	S 10 51.9	268 47.3	N 19 36.7	54.4	Kochab	137 20.0	N 74 03.0
20	65 36.8	116 52.8	S 18 41.1	150 59.8	S 22 28.7	137 24.3	S 23 10.9	30 48.4	N 12 46.9	87 21.9	S 10 51.8	283 20.0	N 19 26.1	54.4	Markab	13 30.9	N 15 20.0
21	80 39.3	131 52.7	S 18 40.4	165 58.9	S 22 28.8	152 24.7	S 23 10.7	45 50.6	N 12 47.0	102 24.1	S 10 51.7	297 52.7	N 19 15.3	54.4	Menkar	314 06.9	N 4 11.0
22	95 41.8	146 52.6	S 18 39.8	180 58.1	S 22 28.8	167 25.1	S 23 10.5	60 52.9	N 12 47.1	117 26.3	S 10 51.6	312 25.6	N 19 04.5	54.4	Menkent	147 58.6	S 36 29.2
23	110 44.2	161 52.4	S 18 39.2	195 57.2	S 22 28.8	182 25.5	S 23 10.3	75 55.1	N 12 47.2	132 28.5	S 10 51.5	326 58.5	N 18 53.6	54.3			
27 00	125 46.7	176 52.3	S 18 38.5	210 56.3	S 22 28.8	197 25.9	S 23 10.1	90 57.4	N 12 47.3	147 30.7	S 10 51.4	341 31.4	N 18 42.6	54.3	Miaplacidus	221 37.6	S 69 48.8
01	140 49.2	191 52.2	S 18 37.9	225 55.5	S 22 28.8	212 26.3	S 23 09.8	105 59.6	N 12 47.3	162 32.9	S 10 51.3	356 04.5	N 18 31.5	54.3	Mirfak	308 29.2	N 49 57.0
02	155 51.6	206 52.0	S 18 37.3	240 54.6	S 22 28.9	227 26.7	S 23 09.6	121 01.9	N 12 47.4	177 35.1	S 10 51.2	10 37.6					

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	GENNAIO	28
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
28 00	126 45.8	176 49.2	S 18 23.1	210 35.4	S 22 28.9	197 35.9	S 23 04.8	91 51.4	N 12 49.3	148 23.5	S 10 48.9	331 04.0	N 13 59.4	54.1	NOME	360	- AR	Dec.
01	141 48.3	191 49.1	S 18 22.5	225 34.5	S 22 28.9	212 36.3	S 23 04.5	106 53.6	N 12 49.4	163 25.7	S 10 48.8	345 38.7	N 13 46.9	54.1	Acamar	315 12.3	S 40 12.7	
02	156 50.8	206 49.0	S 18 21.8	240 33.7	S 22 28.9	227 36.7	S 23 04.3	121 55.9	N 12 49.5	178 27.9	S 10 48.7	0 13.4	N 13 34.3	54.1	Achernar	335 20.8	S 57 07.2	
03	171 53.2	221 48.8	S 18 21.2	255 32.8	S 22 28.9	242 37.1	S 23 04.1	136 58.1	N 12 49.5	193 30.1	S 10 48.6	14 48.2	N 13 21.7	54.1	AcruX	173 00.7	S 63 13.7	
04	186 55.7	236 48.7	S 18 20.5	270 31.9	S 22 28.9	257 37.5	S 23 03.9	152 00.9	N 12 49.6	208 32.3	S 10 48.5	29 23.0	N 13 09.1	54.1	Adhara	255 06.1	S 29 00.4	
05	201 58.2	251 48.6	S 18 19.9	285 31.0	S 22 28.9	272 37.9	S 23 03.6	167 02.6	N 12 49.7	223 34.5	S 10 48.3	43 57.9	N 12 56.4	54.1	Aldebaran	290 40.3	N 16 33.5	
06	217 00.6	266 48.5	S 18 19.2	300 30.2	S 22 28.8	287 38.3	S 23 03.4	182 04.9	N 12 49.8	238 36.7	S 10 48.2	58 32.9	N 12 43.6	54.1				
07	232 03.1	281 48.4	S 18 18.6	315 29.3	S 22 28.8	302 38.8	S 23 03.2	197 07.1	N 12 49.9	253 38.9	S 10 48.1	73 07.9	N 12 30.9	54.1	Alioth	166 13.4	N 55 49.5	
08	247 05.6	296 48.2	S 18 17.9	330 28.4	S 22 28.8	317 39.2	S 23 02.9	212 09.4	N 12 50.0	268 41.1	S 10 48.0	87 42.9	N 12 18.0	54.1	Alkaid	152 52.5	N 49 11.3	
09	262 08.0	311 48.1	S 18 17.3	345 27.6	S 22 28.8	332 39.6	S 23 02.7	227 11.6	N 12 50.1	283 43.3	S 10 47.9	102 18.0	N 12 05.2	54.1	Alnair	27 34.3	S 46 50.9	
10	277 10.5	326 48.0	S 18 16.6	0 26.7	S 22 28.8	347 40.0	S 23 02.5	242 13.8	N 12 50.1	298 45.5	S 10 47.8	116 53.2	N 11 52.2	54.1	Alnilam	275 38.3	S 1 11.3	
11	292 12.9	341 47.9	S 18 16.0	15 25.8	S 22 28.7	2 40.4	S 23 02.3	257 16.1	N 12 50.2	313 47.7	S 10 47.7	131 28.4	N 11 39.3	54.1	Alphard	217 48.2	S 8 45.8	
12	307 15.4	356 47.8	S 18 15.3	30 24.9	S 22 28.7	17 40.8	S 23 02.0	272 18.3	N 12 50.3	328 49.9	S 10 47.6	146 03.6	N 11 26.3	54.1				
13	322 17.9	11 47.6	S 18 14.7	45 24.1	S 22 28.7	32 41.3	S 23 01.8	287 20.6	N 12 50.4	343 52.1	S 10 47.5	160 38.9	N 11 13.3	54.1	Alphecca	126 04.5	N 26 37.8	
14	337 20.3	26 47.5	S 18 14.0	60 23.2	S 22 28.7	47 41.7	S 23 01.6	302 22.8	N 12 50.5	358 54.3	S 10 47.4	175 14.3	N 11 00.2	54.1	Alpheratz	357 35.8	N 29 13.4	
15	352 22.8	41 47.4	S 18 13.4	75 22.3	S 22 28.6	62 42.1	S 23 01.3	317 25.1	N 12 50.6	13 56.5	S 10 47.3	189 49.7	N 10 47.1	54.1	Altair	62 01.0	N 8 55.8	
16	7 25.3	56 47.3	S 18 12.7	90 21.4	S 22 28.6	77 42.5	S 23 01.1	332 27.3	N 12 50.7	28 58.7	S 10 47.2	204 25.1	N 10 33.9	54.1	Ankaa	353 08.1	S 42 10.8	
17	22 27.7	71 47.2	S 18 12.0	105 20.6	S 22 28.6	92 42.9	S 23 00.9	347 29.5	N 12 50.7	44 00.9	S 10 47.1	219 00.6	N 10 20.8	54.1	Antares	112 17.0	S 26 29.1	
18	37 30.2	86 47.0	S 18 11.4	120 19.7	S 22 28.5	107 43.3	S 23 00.6	2 31.8	N 12 50.8	59 03.1	S 10 47.0	233 36.2	N 10 07.5	54.1				
19	52 32.7	101 46.9	S 18 10.7	135 18.8	S 22 28.5	122 43.8	S 23 00.4	17 34.0	N 12 50.9	74 05.3	S 10 46.9	248 11.7	N 9 54.3	54.1	Arcturus	145 48.6	N 19 03.2	
20	67 35.1	116 46.8	S 18 10.1	150 18.0	S 22 28.5	137 44.2	S 23 00.2	32 36.3	N 12 51.0	89 07.5	S 10 46.8	262 47.3	N 9 41.0	54.1	Atria	107 12.3	S 69 04.0	
21	82 37.6	131 46.7	S 18 09.4	165 17.1	S 22 28.5	152 44.6	S 22 59.9	47 38.5	N 12 51.1	104 09.7	S 10 46.7	277 23.0	N 9 27.7	54.1	Avior	234 14.4	S 59 35.2	
22	97 40.1	146 46.6	S 18 08.7	180 16.2	S 22 28.4	167 45.0	S 22 59.7	62 40.7	N 12 51.2	119 11.9	S 10 46.6	291 58.7	N 9 14.3	54.0	Bellatrix	278 23.5	N 6 22.3	
23	112 42.5	161 46.5	S 18 08.1	195 15.3	S 22 28.4	182 45.4	S 22 59.5	77 43.0	N 12 51.3	134 14.1	S 10 46.5	306 34.4	N 9 01.0	54.0	Betelgeuse	270 52.7	N 7 24.7	
29 00	127 45.0	176 46.3	S 18 07.4	210 14.5	S 22 28.3	197 45.8	S 22 59.2	92 45.2	N 12 51.4	149 16.3	S 10 46.4	321 10.2	N 8 47.6	54.0	Canopus	263 52.3	S 52 42.6	
01	142 47.4	191 46.2	S 18 06.8	225 13.6	S 22 28.3	212 46.3	S 22 59.0	107 47.5	N 12 51.4	164 18.5	S 10 46.3	335 46.0	N 8 34.1	54.0	Capella	280 22.7	N 46 01.4	
02	157 49.9	206 46.1	S 18 06.1	240 12.7	S 22 28.3	227 46.7	S 22 58.7	122 49.7	N 12 51.5	179 20.7	S 10 46.1	350 21.8	N 8 20.6	54.0	Castor	245 57.7	N 31 50.1	
03	172 52.4	221 46.0	S 18 05.4	255 11.8	S 22 28.2	242 47.1	S 22 58.5	137 51.9	N 12 51.6	194 22.9	S 10 46.0	4 57.7	N 8 07.2	54.0	Deneb	49 26.8	N 45 21.9	
04	187 54.8	236 45.9	S 18 04.8	270 11.0	S 22 28.2	257 47.5	S 22 58.3	152 54.2	N 12 51.7	209 25.1	S 10 45.9	19 33.6	N 7 53.6	54.0	Denebola	182 25.5	N 14 26.1	
05	202 57.3	251 45.8	S 18 04.1	285 10.1	S 22 28.1	272 47.9	S 22 58.0	167 56.4	N 12 51.8	224 27.3	S 10 45.8	34 09.6	N 7 40.1	54.0				
06	217 59.8	266 45.7	S 18 03.4	300 9.2	S 22 28.1	287 48.3	S 22 57.8	182 58.7	N 12 51.9	239 29.5	S 10 45.7	48 45.5	N 7 26.5	54.0	Diphda	348 48.2	S 17 51.5	
07	233 02.2	281 45.5	S 18 02.8	315 08.4	S 22 28.1	302 48.7	S 22 57.6	198 00.9	N 12 52.0	254 31.7	S 10 45.6	63 21.5	N 7 12.9	54.0	Dubhe	193 41.4	N 61 37.1	
08	248 04.7	296 45.4	S 18 02.1	330 07.5	S 22 28.0	317 49.2	S 22 57.3	213 03.1	N 12 52.1	269 33.9	S 10 45.5	77 57.6	N 6 59.3	54.0	Elnath	278 02.6	N 28 37.7	
09	263 07.2	311 45.3	S 18 01.4	345 06.6	S 22 28.0	332 49.6	S 22 57.1	228 05.4	N 12 52.2	284 36.1	S 10 45.4	92 33.6	N 6 45.6	54.0	Etamin	90 43.0	N 51 28.9	
10	278 09.6	326 45.2	S 18 00.8	0 05.7	S 22 27.9	347 50.0	S 22 56.8	243 07.6	N 12 52.2	299 38.3	S 10 45.3	107 09.7	N 6 32.0	54.0	Enif	33 39.9	N 9 59.0	
11	293 12.1	341 45.1	S 18 00.1	15 04.9	S 22 27.9	2 50.4	S 22 56.6	258 09.8	N 12 52.3	314 40.5	S 10 45.2	121 45.8	N 6 18.3	54.0				
12	308 14.6	356 45.0	S 17 59.4	30 04.0	S 22 27.8	17 50.8	S 22 56.3	273 12.1	N 12 52.4	329 42.6	S 10 45.1	136 22.0	N 6 04.5	54.0	Fomalhaut	15 15.6	S 29 29.9	
13	323 17.0	11 44.9	S 17 58.8	45 03.1	S 22 27.8	32 51.3	S 22 56.1	288 14.3	N 12 52.5	344 44.8	S 10 45.0	150 58.1	N 5 50.8	54.0	Gacrux	171 52.3	S 57 14.7	
14	338 19.5	26 44.8	S 17 58.1	60 02.2	S 22 27.7	47 51.7	S 22 55.9	303 16.6	N 12 52.6	359 47.0	S 10 44.9	165 34.3	N 5 37.0	54.0	Gienah	175 44.2	S 17 40.5	
15	353 21.9	41 44.7	S 17 57.4	75 01.4	S 22 27.6	62 52.1	S 22 55.6	318 18.8	N 12 52.7	14 49.2	S 10 44.8	180 10.5	N 5 23.3	54.0	Hadar	148 37.1	S 60 29.1	
16	8 24.4	56 44.5	S 17 56.7	90 00.5	S 22 27.6	77 52.5	S 22 55.4	333 21.0	N 12 52.8	29 51.4	S 10 44.7	194 46.8	N 5 09.5	54.0	Hamal	327 52.1	N 23 34.6	
17	23 26.9	71 44.4	S 17 56.1	104 59.6	S 22 27.5	92 52.9	S 22 55.1	348 23.3	N 12 52.9	44 53.6	S 10 44.6	209 23.0	N 4 55.7	54.0				
18	38 29.3	86 44.3	S 17 55.4	119 58.7	S 22 27.5	107 53.3	S 22 54.9	3 25.5	N 12 53.0	59 55.8	S 10 44.5	223 59.3	N 4 41.8	54.0	Kaus aust.	83 33.9	S 34 22.4	
19	53 31.8	101 44.2	S 17 54.7	134 57.9	S 22 27.4	122 53.8	S 22 54.6	18 27.7	N 12 53.0	74 58.0	S 10 44.4	238 35.6	N 4 28.0	54.1	Kochab	137 19.9	N 74 03.0	
20	68 34.3	116 44.1	S 17 54.1	149 57.0	S 22 27.4	137 54.2	S 22 54.4	33 30.0	N 12 53.1	90 00.2	S 10 44.2	253 11.9	N 4 14.1	54.1	Markab	13 30.9	N 15 20.0	
21	83 36.7	131 44.0	S 17 53.4	164 56.1	S 22 27.3	152 54.6	S 22 54.2	48 32.2	N 12 53.2	105 02.4	S 10 44.1	267 48.2	N 4 00.3	54.1	Menkar	314 06.9	N 4 11.0	
22	98 39.2	146 43.9	S 17 52.7	179 55.3	S 22 27.2	167 55.0	S 22 53.9	63 34.4	N 12 53.3	120 04.6	S 10 44.0	282 24.5	N 3 46.4	54.1	Menkent	147 58.5	S 36 29.2	
23	113 41.7	161 43.8	S 17 52.0	194 54.4	S 22 27.2	182 55.4	S 22 53.7	78 36.7	N 12 53.4	135 06.8	S 10 43.9	297 00.9	N 3 32.5	54.1				
30 00	128 44.1	176 43.7	S 17 51.4	209 53.5	S 22 27.1	197 55.8	S 22 53.4	93 38.9	N 12 53.5	150 09.0	S 10 43.8	311 37.2	N 3 18.5	54.1	Miaplacidus	221 37.6	S 69 48.8	
01	143 46.6	191 43.6	S 17 50.7	224 52.6	S 22 27.0	212 56.3	S 22 53.2	108 41.1	N 12 53.6									

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	GENNAIO	31	
d h	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "				
31 00	129 43.3	176 41.2	S 17 35.0	209 32.6	S 22 25.2	198 05.9	S 22 47.4	94 32.4	N 12 55.7	151 01.7	S 10 41.3	302 10.7	S 2 17.5	54.2	NOME	360	- AR	Dec.	
01	144 45.7	191 41.1	S 17 34.3	224 31.7	S 22 25.1	213 06.3	S 22 47.1	109 34.6	N 12 55.8	166 03.9	S 10 41.2	316 47.1	S 2 31.6	54.2	Acamar	315 12.3	S 40 12.8		
02	159 48.2	206 41.0	S 17 33.6	239 30.8	S 22 25.0	228 06.7	S 22 46.8	124 36.8	N 12 55.9	181 06.1	S 10 41.1	331 23.4	S 2 45.6	54.2	Achernar	335 20.9	S 57 07.2		
03	174 50.6	221 40.9	S 17 32.9	254 29.9	S 22 24.9	243 07.1	S 22 46.6	139 39.1	N 12 56.0	196 08.3	S 10 41.0	345 59.6	S 2 59.6	54.2	Acruz	173 00.6	S 63 13.7		
04	189 53.1	236 40.8	S 17 32.2	269 29.1	S 22 24.8	258 07.6	S 22 46.3	154 41.3	N 12 56.0	211 10.5	S 10 40.9	0 35.9	S 3 13.6	54.3	Adhara	255 06.1	S 29 00.4		
05	204 55.6	251 40.7	S 17 31.5	284 28.2	S 22 24.7	273 08.0	S 22 46.1	169 43.5	N 12 56.1	226 12.7	S 10 40.8	15 12.1	S 3 27.6	54.3	Aldebaran	290 40.3	N 16 33.5		
06	219 58.0	266 40.6	S 17 30.8	299 27.3	S 22 24.6	288 08.4	S 22 45.8	184 45.7	N 12 56.2	241 14.9	S 10 40.6	29 48.4	S 3 41.6	54.3					
07	235 00.5	281 40.5	S 17 30.1	314 26.5	S 22 24.5	303 08.8	S 22 45.6	199 48.0	N 12 56.3	256 17.1	S 10 40.5	44 24.6	S 3 55.6	54.3	Alioth	166 13.4	N 55 49.5		
08	250 03.0	296 40.4	S 17 29.5	329 25.6	S 22 24.4	318 09.2	S 22 45.3	214 50.2	N 12 56.4	271 19.3	S 10 40.4	59 00.7	S 4 09.5	54.3	Alkaid	152 52.5	N 49 11.3		
09	265 05.4	311 40.3	S 17 28.8	344 24.7	S 22 24.3	333 09.7	S 22 45.0	229 52.4	N 12 56.5	286 21.5	S 10 40.3	73 36.9	S 4 23.5	54.3	Alnair	27 34.3	S 46 50.9		
10	280 07.9	326 40.2	S 17 28.1	359 23.8	S 22 24.2	348 10.1	S 22 44.8	244 54.6	N 12 56.6	301 23.6	S 10 40.2	88 13.0	S 4 37.4	54.3	Alnilam	275 38.3	S 1 11.3		
11	295 10.4	341 40.1	S 17 27.4	14 23.0	S 22 24.1	3 10.5	S 22 44.5	259 56.9	N 12 56.7	316 25.8	S 10 40.1	102 49.1	S 4 51.4	54.3	Alphard	217 48.2	S 8 45.8		
12	310 12.8	356 40.1	S 17 26.7	29 22.1	S 22 24.0	18 10.9	S 22 44.2	274 59.1	N 12 56.8	331 28.0	S 10 40.0	117 25.2	S 5 05.3	54.4					
13	325 15.3	11 40.0	S 17 26.0	44 21.2	S 22 23.9	33 11.3	S 22 44.0	290 01.3	N 12 56.9	346 30.2	S 10 39.9	132 01.2	S 5 19.2	54.4	Alphecca	126 04.5	N 26 37.8		
14	340 17.8	26 39.9	S 17 25.3	59 20.3	S 22 23.8	48 11.8	S 22 43.7	303 03.5	N 12 57.0	1 32.4	S 10 39.8	146 37.2	S 5 33.1	54.4	Alpheratz	357 35.8	N 29 13.4		
15	355 20.2	41 39.8	S 17 24.6	74 19.5	S 22 23.7	63 12.2	S 22 43.5	320 05.7	N 12 57.1	16 34.6	S 10 39.7	161 13.2	S 5 47.0	54.4	Altair	62 01.0	N 8 55.8		
16	10 22.7	56 39.7	S 17 23.9	89 18.6	S 22 23.5	78 12.6	S 22 43.2	335 08.0	N 12 57.2	31 36.8	S 10 39.6	175 49.1	S 6 00.9	54.4	Ankaa	353 08.1	S 42 10.8		
17	25 25.1	71 39.6	S 17 23.2	104 17.7	S 22 23.4	93 13.0	S 22 42.9	350 10.2	N 12 57.3	46 39.0	S 10 39.5	190 25.0	S 6 14.8	54.4	Antares	112 17.0	S 26 29.1		
18	40 27.6	86 39.5	S 17 22.5	119 16.9	S 22 23.3	108 13.4	S 22 42.7	5 12.4	N 12 57.3	61 41.2	S 10 39.4	205 00.9	S 6 28.6	54.4					
19	55 30.1	101 39.4	S 17 21.8	134 16.0	S 22 23.2	123 13.9	S 22 42.4	20 14.6	N 12 57.4	76 43.4	S 10 39.3	219 36.8	S 6 42.4	54.4	Arcturus	145 48.6	N 19 03.2		
20	70 32.5	116 39.3	S 17 21.1	149 15.1	S 22 23.1	138 14.3	S 22 42.1	35 16.8	N 12 57.5	91 45.6	S 10 39.2	234 12.6	S 6 56.2	54.5	Atria	107 12.2	S 69 04.0		
21	85 35.0	131 39.2	S 17 20.4	164 14.2	S 22 23.0	153 14.7	S 22 41.9	50 19.1	N 12 57.6	106 47.8	S 10 39.1	248 48.3	S 7 10.0	54.5	Avior	234 14.4	S 59 35.2		
22	100 37.5	146 39.1	S 17 19.7	179 13.4	S 22 22.8	168 15.1	S 22 41.6	65 21.3	N 12 57.7	121 50.0	S 10 38.9	263 24.0	S 7 23.8	54.5	Bellatrix	278 23.5	N 6 22.3		
23	115 39.9	161 39.0	S 17 19.0	194 12.5	S 22 22.7	183 15.5	S 22 41.3	80 23.5	N 12 57.8	136 52.2	S 10 38.8	277 59.7	S 7 37.6	54.5	Betelgeuse	270 52.7	N 7 24.7		
Feb																			
01 00	130 42.4	176 38.9	S 17 18.3	209 11.6	S 22 22.6	198 16.0	S 22 41.1	95 25.7	N 12 57.9	151 54.4	S 10 38.7	292 35.4	S 7 51.3	54.5	Canopus	263 52.3	S 52 42.6		
01	145 44.9	191 38.9	S 17 17.6	224 10.8	S 22 22.5	213 16.4	S 22 40.8	110 27.9	N 12 58.0	166 56.6	S 10 38.6	307 11.0	S 8 05.0	54.5	Capella	280 22.7	N 46 01.4		
02	160 47.3	206 38.8	S 17 16.9	239 09.9	S 22 22.4	228 16.8	S 22 40.5	125 30.2	N 12 58.1	181 58.8	S 10 38.5	321 46.5	S 8 18.7	54.6	Castor	245 57.7	N 31 50.1		
03	175 49.8	221 38.7	S 17 16.2	254 09.0	S 22 22.2	243 17.2	S 22 40.3	140 32.4	N 12 58.2	197 00.9	S 10 38.4	336 22.0	S 8 32.4	54.6	Deneb	49 26.8	N 45 21.9		
04	190 52.3	236 38.6	S 17 15.5	269 08.1	S 22 22.1	258 17.6	S 22 40.0	155 34.6	N 12 58.3	212 03.1	S 10 38.3	350 57.5	S 8 46.0	54.6	Denebola	182 25.5	N 14 26.1		
05	205 54.7	251 38.5	S 17 14.8	284 07.3	S 22 22.0	273 18.1	S 22 39.7	170 36.8	N 12 58.4	227 05.3	S 10 38.2	5 32.9	S 8 59.6	54.6					
06	220 57.2	266 38.4	S 17 14.1	299 06.4	S 22 21.9	288 18.5	S 22 39.4	185 39.0	N 12 58.5	242 07.5	S 10 38.1	20 08.2	S 9 13.2	54.6	Diphda	348 48.2	S 17 51.5		
07	235 59.6	281 38.3	S 17 13.4	314 05.5	S 22 21.7	303 18.9	S 22 39.2	200 41.2	N 12 58.6	257 09.7	S 10 38.0	34 43.5	S 9 26.8	54.6	Dubhe	193 41.4	N 61 37.1		
08	251 02.1	296 38.2	S 17 12.7	329 04.7	S 22 21.6	318 19.3	S 22 38.9	215 43.5	N 12 58.7	272 11.9	S 10 37.9	49 18.8	S 9 40.3	54.7	Elnath	278 02.6	N 28 37.7		
09	266 04.6	311 38.1	S 17 12.0	344 03.8	S 22 21.5	333 19.7	S 22 38.6	230 45.7	N 12 58.8	287 14.1	S 10 37.8	63 54.0	S 9 53.9	54.7	Etamin	90 42.9	N 51 28.9		
10	281 07.0	326 38.1	S 17 11.2	359 02.9	S 22 21.3	348 20.2	S 22 38.4	245 47.9	N 12 58.9	302 16.3	S 10 37.7	78 29.9	S 10 07.3	54.7	Enif	33 39.9	N 9 59.0		
11	296 09.5	341 38.0	S 17 10.5	14 02.0	S 22 21.2	3 20.6	S 22 38.1	260 50.1	N 12 59.0	317 18.5	S 10 37.6	93 04.3	S 10 20.8	54.7					
12	311 12.0	356 37.9	S 17 09.8	29 01.2	S 22 21.1	18 21.0	S 22 37.8	275 52.3	N 12 59.0	332 20.9	S 10 37.4	107 39.3	S 10 34.2	54.7	Fomalhaut	15 15.7	S 29 29.9		
13	326 14.4	11 37.8	S 17 09.1	44 00.3	S 22 20.9	33 21.4	S 22 37.5	290 54.5	N 12 59.1	347 22.9	S 10 37.3	122 14.3	S 10 47.6	54.8	Gacrux	171 52.2	S 57 14.7		
14	341 16.9	26 37.7	S 17 08.4	58 59.4	S 22 20.8	48 21.8	S 22 37.3	305 56.7	N 12 59.2	2 25.1	S 10 37.2	136 49.2	S 11 01.0	54.8	Gienah	175 44.2	S 17 40.5		
15	356 19.4	41 37.6	S 17 07.7	73 58.6	S 22 20.7	63 22.3	S 22 37.0	320 59.0	N 12 59.3	17 27.3	S 10 37.1	151 24.1	S 11 14.3	54.8	Hadar	148 37.1	S 60 29.1		
16	11 21.8	56 37.5	S 17 07.0	88 57.7	S 22 20.5	78 22.7	S 22 36.7	336 01.2	N 12 59.4	32 29.5	S 10 37.0	165 58.8	S 11 27.6	54.8	Hamal	327 52.1	N 23 34.6		
17	26 24.3	71 37.5	S 17 06.3	103 56.8	S 22 20.4	93 23.1	S 22 36.4	351 03.4	N 12 59.5	47 31.7	S 10 36.9	180 33.6	S 11 40.9	54.8					
18	41 26.7	86 37.4	S 17 05.6	118 56.0	S 22 20.2	108 23.5	S 22 36.2	6 05.6	N 12 59.6	62 33.8	S 10 36.8	195 03.3	S 11 54.1	54.9	Kaus aust.	83 33.9	S 34 22.4		
19	56 29.2	101 37.3	S 17 04.9	133 55.1	S 22 20.1	123 24.0	S 22 35.9	21 07.8	N 12 59.7	77 36.0	S 10 36.7	209 42.9	S 12 07.3	54.9	Kochab	137 19.8	N 74 03.0		
20	71 31.7	116 37.2	S 17 04.1	148 54.2	S 22 19.9	138 24.4	S 22 35.6	36 10.0	N 12 59.8	92 38.2	S 10 36.6	224 17.4	S 12 20.5	54.9	Markab	13 30.9	N 15 20.0		
21	86 34.1	131 37.1	S 17 03.4	163 53.3	S 22 19.8	153 24.8	S 22 35.3	51 12.2	N 12 59.9	107 40.4	S 10 36.5	238 51.9	S 12 33.6	54.9	Menkar	314 06.9	N 4 11.0		
22	101 36.6	146 37.0	S 17 02.7	178 52.5	S 22 19.6	168 25.2	S 22 35.1	66 14.5	N 13 00.0	122 42.6	S 10 36.4	253 26.3	S 12 46.7	54.9	Menkent	147 58.5	S 36 29.2		
23	116 39.1	161 37.0	S 17 02.0	193 51.6	S 22 19.5	183 25.6	S 22 34.8	81 16.7	N 13 00.1	137 44.8	S 10 36.3	268 00.6	S 12 59.7	55.0					
02 00	131 41.5	176 36.9	S 17 01.3	208 50.7	S 22 19.4	198 26.1	S 22 34.5	96 18.9	N 13 00.2	152 47.0	S 10 36.2	282 34.9	S 13 12.7	55.0	Miaplacidus	221 37.6	S 69 48.9		
01	146 44.0	191																	

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	FEBBRAIO	01
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
03 00	132 40.7	176 35.0	S 16 44.0	208 29.9	S 22 15.4	198 36.2	S 22 27.7	97 11.9	N 13 02.5	153 39.6	S 10 33.6	271 52.8	S 18 10.2	55.6	NOME	360	- AR	Dec.
01	147 43.1	191 34.9	S 16 43.3	223 29.0	S 22 15.3	213 36.6	S 22 27.4	112 14.1	N 13 02.6	168 41.8	S 10 33.5	286 24.9	S 18 21.8	55.6	Acamar	315 12.3	S 40 12.8	
02	162 45.6	206 34.9	S 16 42.5	238 28.2	S 22 15.1	228 37.1	S 22 27.1	127 16.3	N 13 02.7	183 44.0	S 10 33.4	300 56.9	S 18 33.4	55.7	Achernar	335 20.9	S 57 07.2	
03	177 48.1	221 34.8	S 16 41.8	253 27.3	S 22 14.9	243 37.5	S 22 26.8	142 18.5	N 13 02.8	198 46.2	S 10 33.3	315 28.8	S 18 45.0	55.7	AcruX	173 00.6	S 63 13.7	
04	192 50.5	236 34.7	S 16 41.1	268 26.4	S 22 14.7	258 37.9	S 22 26.6	157 20.7	N 13 02.9	213 48.4	S 10 33.2	330 00.6	S 18 56.4	55.7	Adhara	255 06.1	S 29 00.4	
05	207 53.0	251 34.6	S 16 40.4	283 25.6	S 22 14.5	273 38.3	S 22 26.3	172 22.9	N 13 03.0	228 50.6	S 10 33.0	344 32.3	S 19 07.8	55.8	Aldebaran	290 40.3	N 16 33.5	
06	222 55.5	266 34.6	S 16 39.6	298 24.7	S 22 14.3	288 38.8	S 22 26.0	187 25.1	N 13 03.1	243 52.7	S 10 32.9	359 03.9	S 19 19.1	55.8				
07	237 57.9	281 34.5	S 16 38.9	313 23.8	S 22 14.2	303 39.2	S 22 25.7	202 27.3	N 13 03.2	258 54.9	S 10 32.8	13 35.4	S 19 30.4	55.8	Alioth	166 13.4	N 55 49.5	
08	253 00.4	296 34.4	S 16 38.2	328 22.9	S 22 14.0	318 39.6	S 22 25.4	217 29.5	N 13 03.3	273 57.1	S 10 32.7	28 06.7	S 19 41.5	55.9	Alkaid	152 52.5	N 49 11.3	
09	268 02.8	311 34.4	S 16 37.4	343 22.1	S 22 13.8	333 40.0	S 22 25.1	232 31.7	N 13 03.4	288 59.3	S 10 32.6	42 38.0	S 19 52.6	55.9	Alnair	27 34.3	S 46 50.9	
10	283 05.3	326 34.3	S 16 36.7	358 21.2	S 22 13.6	348 40.5	S 22 24.8	247 33.9	N 13 03.5	304 01.5	S 10 32.5	57 09.2	S 20 03.6	55.9	Alnilam	275 38.3	S 1 11.3	
11	298 07.8	341 34.2	S 16 36.0	13 20.4	S 22 13.4	3 40.9	S 22 24.5	262 36.1	N 13 03.6	319 03.7	S 10 32.4	71 40.2	S 20 14.5	55.9	Alphard	217 48.2	S 8 45.8	
12	313 10.2	356 34.1	S 16 35.2	28 19.5	S 22 13.2	18 41.3	S 22 24.2	277 38.3	N 13 03.7	334 05.9	S 10 32.3	86 11.2	S 20 25.4	56.0				
13	328 12.7	11 34.1	S 16 34.5	43 18.6	S 22 13.0	33 41.7	S 22 23.9	292 40.5	N 13 03.8	349 08.1	S 10 32.2	100 42.0	S 20 36.2	56.0	Alphecca	126 04.5	N 26 37.8	
14	343 15.2	26 34.0	S 16 33.8	58 17.8	S 22 12.8	48 42.2	S 22 23.6	307 42.7	N 13 03.9	4 10.3	S 10 32.1	115 12.7	S 20 46.8	56.0	Alpheratz	357 35.8	N 29 13.4	
15	358 17.6	41 33.9	S 16 33.0	73 16.9	S 22 12.6	63 42.6	S 22 23.3	322 44.9	N 13 04.0	19 12.5	S 10 32.0	129 43.4	S 20 57.4	56.1	Altair	62 01.0	N 8 55.8	
16	13 20.1	56 33.9	S 16 32.3	88 16.0	S 22 12.4	78 43.0	S 22 23.0	337 47.1	N 13 04.1	34 14.7	S 10 31.9	144 13.9	S 21 07.9	56.1	Ankaa	353 08.1	S 42 10.8	
17	28 22.6	71 33.8	S 16 31.6	103 15.2	S 22 12.2	93 43.4	S 22 22.8	352 49.3	N 13 04.2	49 16.8	S 10 31.8	158 44.2	S 21 18.4	56.1	Antares	112 17.0	S 26 29.1	
18	43 25.0	86 33.7	S 16 30.8	118 14.3	S 22 12.0	108 43.9	S 22 22.5	7 51.5	N 13 04.3	64 19.0	S 10 31.6	173 14.5	S 21 28.7	56.2				
19	58 27.5	101 33.7	S 16 30.1	133 13.4	S 22 11.8	123 44.3	S 22 22.2	22 53.7	N 13 04.4	79 21.2	S 10 31.5	187 44.7	S 21 38.9	56.2	Arcturus	145 48.6	N 19 03.2	
20	73 30.0	116 33.6	S 16 29.4	148 12.6	S 22 11.6	138 44.7	S 22 21.9	37 55.9	N 13 04.5	94 23.4	S 10 31.4	202 14.7	S 21 49.1	56.2	Atria	107 12.2	S 69 04.0	
21	88 32.4	131 33.5	S 16 28.6	163 11.7	S 22 11.4	153 45.1	S 22 21.6	52 58.1	N 13 04.6	109 25.6	S 10 31.3	216 44.6	S 21 59.2	56.3	Avior	234 14.4	S 59 35.2	
22	103 34.9	146 33.5	S 16 27.9	178 10.8	S 22 11.2	168 45.6	S 22 21.3	68 00.3	N 13 04.7	124 27.8	S 10 31.2	231 14.4	S 22 09.1	56.3	Bellatrix	278 23.5	N 6 22.2	
23	118 37.3	161 33.4	S 16 27.1	193 10.0	S 22 11.0	183 46.0	S 22 21.0	83 02.5	N 13 04.8	139 30.0	S 10 31.1	245 44.1	S 22 19.0	56.3	Betelgeuse	270 52.7	N 7 24.7	
04 00	133 39.8	176 33.3	S 16 26.4	208 09.1	S 22 10.8	198 46.4	S 22 20.7	98 04.7	N 13 04.9	154 32.2	S 10 31.0	260 13.7	S 22 28.7	56.4	Canopus	263 52.3	S 52 42.6	
01	148 42.3	191 33.3	S 16 25.7	223 08.2	S 22 10.6	213 46.8	S 22 20.4	113 06.9	N 13 05.0	169 34.4	S 10 30.9	274 43.1	S 22 38.4	56.4	Capella	280 22.7	N 46 01.4	
02	163 44.7	206 33.2	S 16 24.9	238 07.4	S 22 10.4	228 47.3	S 22 20.1	128 09.1	N 13 05.1	184 36.6	S 10 30.8	289 12.5	S 22 48.0	56.5	Castor	245 57.7	N 31 50.1	
03	178 47.2	221 33.1	S 16 24.2	253 06.5	S 22 10.2	243 47.7	S 22 19.8	143 11.3	N 13 05.2	199 38.7	S 10 30.7	303 41.7	S 22 57.4	56.5	Deneb	49 26.8	N 45 21.9	
04	193 49.7	236 33.1	S 16 23.4	268 05.6	S 22 10.0	258 48.1	S 22 19.5	158 13.5	N 13 05.3	214 40.9	S 10 30.6	318 10.8	S 23 06.8	56.5	Denebola	182 25.5	N 14 26.1	
05	208 52.1	251 33.0	S 16 22.7	283 04.8	S 22 09.8	273 48.5	S 22 19.2	173 15.7	N 13 05.4	229 43.1	S 10 30.5	332 39.7	S 23 16.1	56.6				
06	223 54.6	266 32.9	S 16 22.0	298 03.9	S 22 09.6	288 49.0	S 22 18.9	188 17.9	N 13 05.5	244 45.3	S 10 30.3	347 08.6	S 23 25.2	56.6	Diphda	348 48.2	S 17 51.5	
07	238 57.1	281 32.9	S 16 21.2	313 03.0	S 22 09.4	303 49.4	S 22 18.6	203 20.1	N 13 05.6	259 47.5	S 10 30.2	1 37.3	S 23 34.3	56.6	Dubhe	193 41.4	N 61 37.1	
08	253 59.5	296 32.8	S 16 20.5	328 02.2	S 22 09.2	318 49.8	S 22 18.3	218 22.3	N 13 05.7	274 49.7	S 10 30.1	16 05.9	S 23 43.2	56.7	Elnath	278 02.6	N 28 37.7	
09	269 02.0	311 32.8	S 16 19.7	343 01.3	S 22 08.9	333 50.2	S 22 18.0	233 24.5	N 13 05.8	289 51.9	S 10 30.0	30 34.4	S 23 52.0	56.7	Etamin	90 42.9	N 51 28.9	
10	284 04.5	326 32.7	S 16 19.0	358 00.5	S 22 08.7	348 50.7	S 22 17.7	248 26.7	N 13 05.9	304 54.1	S 10 29.9	45 02.7	S 24 00.7	56.7	Enif	33 39.9	N 9 59.0	
11	299 06.9	341 32.6	S 16 18.2	12 59.6	S 22 08.5	3 51.1	S 22 17.4	263 28.9	N 13 06.0	319 56.3	S 10 29.8	59 31.0	S 24 09.3	56.8				
12	314 09.4	356 32.6	S 16 17.5	27 58.7	S 22 08.3	18 51.5	S 22 17.1	278 31.1	N 13 06.1	334 58.5	S 10 29.7	73 59.1	S 24 17.8	56.8	Fomalhaut	15 15.7	S 29 29.9	
13	329 11.8	11 32.5	S 16 16.8	42 57.9	S 22 08.1	33 52.0	S 22 16.8	293 33.3	N 13 06.2	350 00.6	S 10 29.6	88 27.1	S 24 26.1	56.9	Gacrux	171 52.2	S 57 14.7	
14	344 14.3	26 32.5	S 16 16.0	57 57.0	S 22 07.9	48 52.4	S 22 16.5	308 35.5	N 13 06.3	5 02.8	S 10 29.5	102 54.9	S 24 34.4	56.9	Gienah	175 44.2	S 17 40.5	
15	359 16.8	41 32.4	S 16 15.3	72 56.1	S 22 07.6	63 52.8	S 22 16.1	323 37.7	N 13 06.4	20 05.0	S 10 29.4	117 22.7	S 24 42.5	56.9	Hadar	148 37.0	S 60 29.1	
16	14 19.2	56 32.3	S 16 14.5	87 55.3	S 22 07.4	78 53.2	S 22 15.8	338 39.8	N 13 06.5	35 07.2	S 10 29.3	131 50.3	S 24 50.5	57.0	Hamal	327 52.1	N 23 34.6	
17	29 21.7	71 32.3	S 16 13.8	102 54.4	S 22 07.2	93 53.7	S 22 15.5	353 42.0	N 13 06.6	50 09.4	S 10 29.2	146 17.8	S 24 58.4	57.0				
18	44 24.2	86 32.2	S 16 13.0	117 53.6	S 22 07.0	108 54.1	S 22 15.2	8 44.2	N 13 06.7	65 11.6	S 10 29.0	160 45.2	S 25 06.1	57.0	Kaus aust.	83 33.9	S 34 22.4	
19	59 26.6	101 32.2	S 16 12.3	132 52.7	S 22 06.7	123 54.5	S 22 14.9	23 46.4	N 13 06.8	80 13.8	S 10 28.9	175 12.4	S 25 13.7	57.1	Kochab	137 19.8	N 74 03.0	
20	74 29.1	116 32.1	S 16 11.5	147 51.8	S 22 06.5	138 54.9	S 22 14.6	38 48.6	N 13 06.9	95 16.0	S 10 28.8	189 39.6	S 25 21.2	57.1	Markab	13 30.9	N 15 20.0	
21	89 31.6	131 32.0	S 16 10.8	162 51.0	S 22 06.3	153 55.4	S 22 14.3	53 50.8	N 13 07.0	110 18.2	S 10 28.7	204 06.6	S 25 28.6	57.2	Menkar	314 06.9	N 4 11.0	
22	104 34.0	146 32.0	S 16 10.0	177 50.1	S 22 06.0	168 55.8	S 22 14.0	68 53.0	N 13 07.1	125 20.4	S 10 28.6	218 33.5	S 25 35.8	57.2	Menkent	147 58.5	S 36 29.2	
23	119 36.5	161 31.9	S 16 09.3	192 49.2	S 22 05.8	183 56.2	S 22 13.7	83 55.2	N 13 07.3	140 22.5	S 10 28.5	233 00.2	S 25 42.9	57.2				
05 00	134 39.0	176 31.9	S 16 08.5	207 48.4	S 22 05.6	198 56.7	S 22 13.4	98 57.4	N 13 07.4	155 24.7	S 10 28.4	247 26.9	S 25 49.8	57.3	Miaplacidus	221 37.6	S 69 48.9	
01	149 41.4	191 31.8	S 16 07.8	222 47.5	S 22 05.3	213 57.1	S											

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	FEBBRAIO	04
d h	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "
06 00	135 38.1	176 30.6 S 15 50.4	207 27.8 S 21 59.7	199 06.9 S 22 05.9	99 49.9 N 13 09.8	156 17.3 S 10 25.8	233 32.1 S 27 51.9	58.2	NOME	360	- AR	Dec.
01	150 40.6	191 30.5 S 15 49.6	222 26.9 S 21 59.4	214 07.4 S 22 05.5	114 52.1 N 13 09.9	171 19.4 S 10 25.7	247 56.0 S 27 54.9	58.3	Acamar	315	12.3	S 40 12.8
02	165 43.0	206 30.5 S 15 48.8	237 26.0 S 21 59.1	229 07.8 S 22 05.2	129 54.3 N 13 10.0	186 21.6 S 10 25.6	262 19.8 S 27 57.8	58.3	Achernar	335	20.9	S 57 07.2
03	180 45.5	221 30.4 S 15 48.1	252 25.2 S 21 58.9	244 08.2 S 22 04.9	144 56.5 N 13 10.1	201 23.8 S 10 25.5	276 43.5 S 28 00.5	58.4	Acruz	173	00.6	S 63 13.7
04	195 47.9	236 30.4 S 15 47.3	267 24.3 S 21 58.6	259 08.7 S 22 04.6	159 58.6 N 13 10.3	216 26.0 S 10 25.3	291 07.1 S 28 03.0	58.4	Adhara	255	06.1	S 29 00.4
05	210 50.4	251 30.4 S 15 46.5	282 23.5 S 21 58.3	274 09.1 S 22 04.3	175 00.8 N 13 10.4	231 28.2 S 10 25.2	305 30.7 S 28 05.4	58.4	Aldebaran	290	40.3	N 16 33.5
06	225 52.9	266 30.3 S 15 45.8	297 22.6 S 21 58.1	289 09.5 S 22 03.9	190 03.0 N 13 10.5	246 30.4 S 10 25.1	319 54.2 S 28 07.5	58.5				
07	240 55.3	281 30.3 S 15 45.0	312 21.8 S 21 57.8	304 10.0 S 22 03.6	205 05.2 N 13 10.6	261 32.6 S 10 25.0	334 17.6 S 28 09.5	58.5	Alioth	166	13.3	N 55 49.5
08	255 57.8	296 30.2 S 15 44.2	327 20.9 S 21 57.5	319 10.4 S 22 03.3	220 07.4 N 13 10.7	276 34.8 S 10 24.9	348 40.9 S 28 11.3	58.6	Alkaid	152	52.5	N 49 11.3
09	271 00.3	311 30.2 S 15 43.5	342 20.1 S 21 57.3	334 10.8 S 22 03.0	235 09.5 N 13 10.8	291 36.9 S 10 24.8	3 04.1 S 28 12.9	58.6	Alnair	27	34.3	S 46 50.8
10	286 02.7	326 30.1 S 15 42.7	357 19.2 S 21 57.0	349 11.3 S 22 02.6	250 11.7 N 13 10.9	306 39.1 S 10 24.7	17 27.2 S 28 14.4	58.6	Alnilam	275	38.3	S 1 11.3
11	301 05.2	341 30.1 S 15 41.9	12 18.3 S 21 56.7	4 11.7 S 22 02.3	265 13.9 N 13 11.0	321 41.3 S 10 24.6	31 50.3 S 28 15.6	58.7	Alphard	217	48.2	S 8 45.8
12	316 07.7	356 30.0 S 15 41.2	27 17.5 S 21 56.5	19 12.1 S 22 02.0	280 16.1 N 13 11.1	336 43.5 S 10 24.5	46 13.3 S 28 16.7	58.7				
13	331 10.1	11 30.0 S 15 40.4	42 16.6 S 21 56.2	34 12.5 S 22 01.7	295 18.3 N 13 11.2	351 45.7 S 10 24.4	60 36.3 S 28 17.5	58.8	Alphecca	126	04.5	N 26 37.8
14	346 12.6	26 29.9 S 15 39.6	57 15.8 S 21 55.9	49 13.0 S 22 01.3	310 20.5 N 13 11.3	6 47.9 S 10 24.3	74 59.1 S 28 18.2	58.8	Alpheratz	357	35.8	N 29 13.4
15	1 15.1	41 29.9 S 15 38.9	72 14.9 S 21 55.6	64 13.4 S 22 01.0	325 22.6 N 13 11.4	21 50.1 S 10 24.1	89 21.9 S 28 18.7	58.8	Altair	62	01.0	N 8 55.8
16	16 17.5	56 29.9 S 15 38.1	87 14.1 S 21 55.4	79 13.8 S 22 00.7	340 24.8 N 13 11.5	36 52.3 S 10 24.0	103 44.7 S 28 19.0	58.9	Ankaa	353	08.2	S 42 10.8
17	31 20.0	71 29.8 S 15 37.3	102 13.2 S 21 55.1	94 14.3 S 22 00.4	355 27.0 N 13 11.6	51 54.4 S 10 23.9	118 07.4 S 28 19.1	58.9	Antares	112	16.9	S 26 29.1
18	46 22.4	86 29.8 S 15 36.6	117 12.4 S 21 54.8	109 14.7 S 22 00.0	10 29.2 N 13 11.7	66 56.6 S 10 23.8	132 30.0 S 28 19.0	59.0				
19	61 24.9	101 29.7 S 15 35.8	132 11.5 S 21 54.5	124 15.1 S 21 59.7	25 31.4 N 13 11.8	81 58.8 S 10 23.7	146 52.6 S 28 18.7	59.0	Arcturus	145	48.6	N 19 03.2
20	76 27.4	116 29.7 S 15 35.0	147 10.6 S 21 54.2	139 15.6 S 21 59.4	40 33.5 N 13 11.9	97 01.0 S 10 23.6	161 15.1 S 28 18.3	59.0	Atria	107	12.2	S 69 04.0
21	91 29.8	131 29.6 S 15 34.2	162 09.8 S 21 53.9	154 16.0 S 21 59.1	55 35.7 N 13 12.0	112 03.2 S 10 23.5	175 37.2 S 28 17.6	59.1	Avior	234	14.4	S 59 35.2
22	106 32.3	146 29.6 S 15 33.5	177 08.9 S 21 53.7	169 16.4 S 21 58.7	70 37.9 N 13 12.2	127 05.4 S 10 23.4	190 00.0 S 28 16.7	59.1	Bellatrix	278	23.5	N 6 22.2
23	121 34.8	161 29.6 S 15 32.7	192 08.1 S 21 53.4	184 16.9 S 21 58.4	85 40.1 N 13 12.3	142 07.6 S 10 23.3	204 22.4 S 28 15.7	59.1	Betelgeuse	270	52.7	N 7 24.6
07 00	136 37.2	176 29.5 S 15 31.9	207 07.2 S 21 53.1	199 17.3 S 21 58.1	100 42.3 N 13 12.4	157 09.8 S 10 23.2	218 44.7 S 28 14.4	59.2	Canopus	263	52.3	S 52 42.6
01	151 39.7	191 29.5 S 15 31.2	222 06.4 S 21 52.8	214 17.7 S 21 57.8	115 44.4 N 13 12.5	172 11.9 S 10 23.1	233 07.1 S 28 12.9	59.2	Capella	280	22.7	N 46 01.4
02	166 42.2	206 29.4 S 15 30.4	237 05.5 S 21 52.5	229 18.2 S 21 57.4	130 46.6 N 13 12.6	187 14.1 S 10 22.9	247 29.3 S 28 11.3	59.3	Castor	245	57.7	N 31 50.1
03	181 44.6	221 29.4 S 15 29.6	252 04.7 S 21 52.2	244 18.6 S 21 57.1	145 48.8 N 13 12.7	202 16.3 S 10 22.8	261 51.6 S 28 09.4	59.3	Deneb	49	26.8	N 45 21.8
04	196 47.1	236 29.4 S 15 28.8	267 03.8 S 21 51.9	259 19.0 S 21 56.8	160 51.0 N 13 12.8	217 18.5 S 10 22.7	276 13.8 S 28 07.4	59.3	Denebola	182	25.5	N 14 26.1
05	211 49.6	251 29.3 S 15 28.1	282 03.0 S 21 51.6	274 19.5 S 21 56.4	175 53.1 N 13 12.9	232 20.7 S 10 22.6	290 36.0 S 28 05.1	59.4				
06	226 52.0	266 29.3 S 15 27.3	297 02.1 S 21 51.3	289 19.9 S 21 56.1	190 55.3 N 13 13.0	247 22.9 S 10 22.5	304 58.1 S 28 02.7	59.4	Diphda	348	48.2	S 17 51.5
07	241 54.5	281 29.2 S 15 26.5	312 01.3 S 21 51.0	304 20.3 S 21 55.8	205 57.5 N 13 13.1	262 25.1 S 10 22.4	319 20.3 S 28 00.0	59.4	Dubhe	193	41.3	N 61 37.1
08	256 56.9	296 29.2 S 15 25.7	327 00.4 S 21 50.7	319 20.8 S 21 55.4	220 59.7 N 13 13.2	277 27.2 S 10 22.3	333 42.4 S 27 57.2	59.5	Elnath	278	02.6	N 28 37.7
09	271 59.4	311 29.2 S 15 24.9	341 59.6 S 21 50.4	334 21.2 S 21 55.1	236 01.8 N 13 13.3	292 29.4 S 10 22.2	348 04.5 S 27 54.1	59.5	Etamin	90	42.9	N 51 28.8
10	287 01.9	326 29.1 S 15 24.2	356 58.7 S 21 50.2	349 21.6 S 21 54.8	251 04.4 N 13 13.4	307 31.6 S 10 22.1	2 26.6 S 27 50.9	59.6	Enif	33	39.9	N 9 59.0
11	302 04.3	341 29.1 S 15 23.4	11 57.9 S 21 49.9	4 22.1 S 21 54.4	266 06.2 N 13 13.5	322 33.8 S 10 22.0	16 48.6 S 27 47.4	59.6				
12	317 06.8	356 29.1 S 15 22.6	26 57.0 S 21 49.6	19 22.5 S 21 54.1	281 08.4 N 13 13.6	337 36.0 S 10 21.8	31 10.7 S 27 43.8	59.6	Fomalhaut	15	15.7	S 29 29.9
13	332 09.3	11 29.0 S 15 21.8	41 56.2 S 21 49.2	34 22.9 S 21 53.8	296 10.5 N 13 13.8	352 38.2 S 10 21.7	45 32.8 S 27 39.9	59.7	Gacrux	171	52.2	S 57 14.7
14	347 11.7	26 29.0 S 15 21.1	56 55.3 S 21 48.9	49 23.4 S 21 53.4	311 12.7 N 13 13.9	7 40.4 S 10 21.6	59 54.8 S 27 35.9	59.7	Gienah	175	44.2	S 17 40.5
15	2 14.2	41 28.9 S 15 20.3	71 54.5 S 21 48.6	64 23.8 S 21 53.1	326 14.9 N 13 14.0	22 42.6 S 10 21.5	74 16.9 S 27 31.6	59.7	Hadar	148	37.0	S 60 29.1
16	17 16.7	56 28.9 S 15 19.5	86 53.6 S 21 48.3	79 24.2 S 21 52.8	341 17.1 N 13 14.1	37 44.7 S 10 21.4	88 38.9 S 27 27.1	59.8	Hamal	327	52.1	N 23 34.6
17	32 19.1	71 28.9 S 15 18.7	101 52.8 S 21 48.0	94 24.7 S 21 52.4	356 19.2 N 13 14.2	52 46.9 S 10 21.3	103 01.0 S 27 22.5	59.8				
18	47 21.6	86 28.8 S 15 17.9	116 51.9 S 21 47.7	109 25.1 S 21 52.1	11 21.4 N 13 14.3	67 49.1 S 10 21.2	117 23.1 S 27 17.6	59.8	Kaus aust.	83	33.8	S 34 22.4
19	62 24.1	101 28.8 S 15 17.1	131 51.1 S 21 47.4	124 25.5 S 21 51.8	26 23.6 N 13 14.4	82 51.3 S 10 21.1	131 45.2 S 27 12.6	59.9	Kochab	137	19.7	N 74 03.0
20	77 26.5	116 28.8 S 15 16.4	146 50.2 S 21 47.1	139 26.0 S 21 51.4	41 25.8 N 13 14.5	97 53.5 S 10 21.0	146 07.3 S 27 07.3	59.9	Markab	13	30.9	N 15 20.0
21	92 29.0	131 28.7 S 15 15.6	161 49.4 S 21 46.8	154 26.4 S 21 51.1	56 27.9 N 13 14.6	112 55.7 S 10 20.9	160 29.4 S 27 01.9	59.9	Menkar	314	06.9	N 4 11.0
22	107 31.4	146 28.7 S 15 14.8	176 48.5 S 21 46.5	169 26.8 S 21 50.7	71 30.1 N 13 14.7	127 57.9 S 10 20.7	174 51.5 S 26 56.2	60.0	Menkent	147	58.5	S 36 29.2
23	122 33.9	161 28.7 S 15 14.0	191 47.7 S 21 46.2	184 27.3 S 21 50.4	86 32.3 N 13 14.8	143 00.0 S 10 20.6	189 13.7 S 26 50.4	60.0				
08 00	137 36.4	176 28.6 S 15 13.2	206 46.8 S 21 45.9	199 27.7 S 21 50.1	101 34.4 N 13 14.9	158 02.2 S 10 20.5	203 35.8 S 26 44.3	60.0	Miaplacidus	221	37.6	S 69 48.9
01	152 38.8	191 28.6 S 15 12.4	221 46.0 S 21 45.5	214 28.1 S 21 49.7	116 36.6 N 13 15.0	173 04.4 S 10 20.4	217 58.1 S 26 38.1	60.1	Mirfak	308	29.3	N 49 57.0
02	167 41.3	206 28.6 S 15 11.7	236 45.1 S 21 45.2	229 28.6 S 21 49.4	131 38.8 N 13 15.2	188 06.6 S 10 20.3	232 20.3 S 26 31.6	60.1	Mizar	158	46.3	S 54 47.7
03	182 43.8	221 28.5 S 15 10.9	251 44.3 S 21 44.9	244 29.0 S 21 49.0	146 41.0 N 13 15.3	203 08.8 S 10 20.2	246 42.6 S 26 25.0	60.1	Nunki	75	49.0	S 26 16.0
04	197 46.2	236 28.5 S 15 10.1	266 43.4 S 21 44.6	259 29.4 S 21 48.7	161 43.1 N 13 15.4	218 11.0 S 10 20.1	261 04.9 S 26 18.2	60.2	Peacock	53	07.5	S 56 39.5
05	212 48.7	251 28.5 S 15 09.3	281 42.6 S 21 44.3	274 29.9 S 21 48.4	176 45.3 N 13 15.5	233 13.2 S 10 20.0	275 27.2 S 26 11.1	60.2	Polaris	314	23.4	N 89 22.3
06	227 51.2	266 28.4 S 15 08.5	296 41.7 S 21 43.9	289 30.3 S 21 48.0	191 47.5 N 13 15.6	248 15.3 S 10 19.9	289 49.6 S 26 03.9	60.2	Pollux	243	17.9	N 27 58.1
07	242 53.6	281 28.4 S 15 07.7	311 40.9 S 21 43.6	304 30.7 S 21 47.7	206 49.6 N 13 15.7	263 17.5 S 10 19.8	304 12.0 S 25 56.5	60.3	Procyon	244	51.3	N 5 09.7
08	257 56.1	296 28.4 S 15 06.9	326 40.1 S 21 43.3	319 31.2 S 21 47.3	221 51.8 N 13 15.8	27						

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	FEBBRAIO	07						
09 00	138 35.5	176 28.0	S 14 54.3	206 26.5	S 21 38.0	199 38.2	S 21 41.8	102 26.5	N 13 17.6	158 54.7	S 10 17.9	188 41.2	S 23 22.0	60.7	NOME	360	- AR	Dec.
01	153 38.0	191 27.9	S 14 53.5	221 25.7	S 21 37.6	214 38.6	S 21 41.5	117 28.7	N 13 17.7	173 56.9	S 10 17.8	203 04.7	S 23 11.4	60.7	Acamar	315	12.3	S 40 12.8
02	168 40.4	206 27.9	S 14 52.7	236 24.9	S 21 37.3	229 39.0	S 21 41.1	132 30.8	N 13 17.8	188 59.0	S 10 17.7	217 28.2	S 23 00.5	60.8	Achernar	335	20.9	S 57 07.2
03	183 42.9	221 27.9	S 14 51.9	251 24.0	S 21 36.9	244 39.5	S 21 40.8	147 33.0	N 13 17.9	204 01.2	S 10 17.6	231 51.8	S 22 49.5	60.8	Acruz	173	00.5	S 63 13.8
04	198 45.4	236 27.9	S 14 51.1	266 23.2	S 21 36.6	259 39.9	S 21 40.4	162 35.2	N 13 18.0	219 03.4	S 10 17.4	246 15.5	S 22 38.3	60.8	Adhara	255	06.1	S 29 00.4
05	213 47.8	251 27.8	S 14 50.3	281 22.3	S 21 36.2	274 40.3	S 21 40.1	177 37.3	N 13 18.1	234 05.6	S 10 17.3	260 39.3	S 22 27.0	60.8	Aldebaran	290	40.3	N 16 33.5
06	228 50.3	266 27.8	S 14 49.5	296 21.5	S 21 35.9	289 40.8	S 21 39.7	192 39.5	N 13 18.2	249 07.8	S 10 17.2	275 03.2	S 22 15.4	60.9				
07	243 52.8	281 27.8	S 14 48.7	311 20.7	S 21 35.5	304 41.2	S 21 39.4	207 41.6	N 13 18.3	264 10.0	S 10 17.1	289 27.1	S 22 03.8	60.9	Alioth	166	13.3	N 55 49.5
08	258 55.2	296 27.8	S 14 47.9	326 19.8	S 21 35.2	319 41.7	S 21 39.0	222 43.8	N 13 18.4	279 12.2	S 10 17.0	303 51.1	S 21 51.9	60.9	Alkaid	152	52.4	N 49 11.3
09	273 57.7	311 27.7	S 14 47.1	341 19.0	S 21 34.8	334 42.1	S 21 38.7	237 46.0	N 13 18.6	294 14.3	S 10 16.9	318 15.2	S 21 40.0	60.9	Alnair	27	34.3	S 46 50.8
10	289 00.2	326 27.7	S 14 46.3	356 18.1	S 21 34.5	349 42.5	S 21 38.3	252 48.1	N 13 18.7	309 16.5	S 10 16.8	332 39.4	S 21 27.8	60.9	Alnilam	275	38.3	S 1 11.3
11	304 02.6	341 27.7	S 14 45.5	11 17.3	S 21 34.1	4 43.0	S 21 38.0	267 50.3	N 13 18.8	324 18.7	S 10 16.7	347 03.7	S 21 15.5	60.9	Alphard	217	48.2	S 8 45.8
12	319 05.1	356 27.7	S 14 44.7	26 16.5	S 21 33.8	19 43.4	S 21 37.6	282 52.5	N 13 18.9	339 20.9	S 10 16.6	1 28.1	S 21 03.1	61.0				
13	334 07.5	11 27.7	S 14 43.9	41 15.6	S 21 33.4	34 43.8	S 21 37.3	297 54.6	N 13 19.0	354 23.1	S 10 16.5	15 52.5	S 20 50.5	61.0	Alphecca	126	04.4	N 26 37.8
14	349 10.0	26 27.6	S 14 43.1	56 14.8	S 21 33.1	49 44.3	S 21 36.9	312 56.8	N 13 19.1	9 25.3	S 10 16.3	30 17.0	S 20 37.7	61.0	Alpheratz	357	35.8	N 29 13.4
15	4 12.5	41 27.6	S 14 42.3	71 13.9	S 21 32.7	64 44.7	S 21 36.5	327 58.9	N 13 19.2	24 27.4	S 10 16.2	44 41.6	S 20 24.9	61.0	Altair	62	01.0	N 8 55.8
16	19 14.9	56 27.6	S 14 41.5	86 13.1	S 21 32.4	79 45.2	S 21 36.2	343 01.1	N 13 19.3	39 29.6	S 10 16.1	59 06.3	S 20 11.8	61.0	Ankaa	353	08.2	S 42 10.8
17	34 17.4	71 27.6	S 14 40.7	101 12.3	S 21 32.0	94 45.6	S 21 35.8	358 03.3	N 13 19.4	54 31.8	S 10 16.0	73 31.1	S 19 58.7	61.0	Antares	112	16.9	S 26 29.1
18	49 19.9	86 27.6	S 14 39.9	116 11.4	S 21 31.6	109 46.0	S 21 35.5	13 05.4	N 13 19.6	69 34.0	S 10 15.9	87 56.0	S 19 45.4	61.1				
19	64 22.3	101 27.6	S 14 39.1	131 10.6	S 21 31.3	124 46.5	S 21 35.1	28 07.6	N 13 19.7	84 36.2	S 10 15.8	102 20.9	S 19 31.9	61.1	Arcturus	145	48.5	N 19 03.2
20	79 24.8	116 27.5	S 14 38.3	146 09.8	S 21 30.9	139 46.9	S 21 34.8	43 09.7	N 13 19.8	99 38.4	S 10 15.7	116 46.0	S 19 18.3	61.1	Atria	107	12.1	S 69 04.0
21	94 27.3	131 27.5	S 14 37.5	161 08.9	S 21 30.5	154 47.4	S 21 34.4	58 11.9	N 13 19.9	114 40.6	S 10 15.6	131 11.1	S 19 04.6	61.1	Avior	234	14.4	S 59 35.2
22	109 29.7	146 27.5	S 14 36.7	176 08.1	S 21 30.2	169 47.8	S 21 34.0	73 14.1	N 13 20.0	129 42.7	S 10 15.5	145 36.3	S 18 50.8	61.1	Bellatrix	278	23.5	N 6 22.2
23	124 32.2	161 27.5	S 14 35.9	191 07.2	S 21 29.8	184 48.2	S 21 33.7	88 16.2	N 13 20.1	144 44.9	S 10 15.3	160 01.6	S 18 36.8	61.1	Betelgeuse	270	52.7	N 7 24.6
10 00	139 34.7	176 27.5	S 14 35.1	206 06.4	S 21 29.4	199 48.7	S 21 33.3	103 18.4	N 13 20.2	159 47.1	S 10 15.2	174 27.0	S 18 22.7	61.1	Canopus	263	52.3	S 52 42.7
01	154 37.1	191 27.4	S 14 34.3	221 05.6	S 21 29.1	214 49.1	S 21 33.0	118 20.5	N 13 20.3	174 49.3	S 10 15.1	188 52.5	S 18 08.5	61.1	Capella	280	22.7	N 46 01.5
02	169 39.6	206 27.4	S 14 33.4	236 04.7	S 21 28.7	229 49.6	S 21 32.6	133 22.7	N 13 20.4	189 51.5	S 10 15.0	203 18.1	S 17 54.1	61.2	Castor	245	57.7	N 31 50.1
03	184 42.0	221 27.4	S 14 32.6	251 03.9	S 21 28.3	244 50.0	S 21 32.3	148 24.9	N 13 20.6	204 53.7	S 10 14.9	217 43.8	S 17 39.7	61.2	Deneb	49	26.8	N 45 21.8
04	199 44.5	236 27.4	S 14 31.8	266 03.1	S 21 28.0	259 50.4	S 21 31.9	163 27.0	N 13 20.7	219 55.8	S 10 14.8	232 09.5	S 17 25.1	61.2	Denebola	182	25.5	N 14 26.1
05	214 47.0	251 27.4	S 14 31.0	281 02.2	S 21 27.6	274 50.9	S 21 31.5	178 29.2	N 13 20.8	234 58.0	S 10 14.7	246 35.4	S 17 10.4	61.2				
06	229 49.4	266 27.4	S 14 30.2	296 01.4	S 21 27.2	289 51.3	S 21 31.2	193 31.3	N 13 20.9	250 00.2	S 10 14.6	261 01.3	S 16 55.6	61.2	Diphda	348	48.2	S 17 51.5
07	244 51.9	281 27.4	S 14 29.4	311 00.6	S 21 26.8	304 51.8	S 21 30.8	208 33.5	N 13 21.0	265 02.4	S 10 14.5	275 27.3	S 16 40.6	61.2	Dubhe	193	41.3	N 61 37.1
08	259 54.4	296 27.3	S 14 28.6	325 59.7	S 21 26.5	319 52.2	S 21 30.5	223 35.6	N 13 21.1	280 04.6	S 10 14.4	289 53.4	S 16 25.6	61.2	Elnath	278	02.6	N 28 37.7
09	274 56.8	311 27.3	S 14 27.8	340 58.9	S 21 26.1	334 52.6	S 21 30.1	238 37.8	N 13 21.2	295 06.8	S 10 14.2	304 19.6	S 16 10.4	61.2	Etamin	90	42.9	N 51 28.8
10	289 59.3	326 27.3	S 14 27.0	355 58.1	S 21 25.7	349 53.1	S 21 29.7	253 40.0	N 13 21.3	310 08.9	S 10 14.1	318 45.9	S 15 55.2	61.2	Enif	33	39.9	N 9 59.0
11	305 01.8	341 27.3	S 14 26.2	10 57.2	S 21 25.3	4 53.5	S 21 29.4	268 42.1	N 13 21.5	325 11.1	S 10 14.0	333 12.2	S 15 39.8	61.2				
12	320 04.2	356 27.3	S 14 25.4	25 56.4	S 21 24.9	19 54.0	S 21 29.0	283 44.3	N 13 21.6	340 13.3	S 10 13.9	347 38.7	S 15 24.4	61.2	Fomalhaut	15	15.7	S 29 29.9
13	335 06.7	11 27.3	S 14 24.5	40 55.6	S 21 24.5	34 54.4	S 21 28.6	298 46.4	N 13 21.7	355 15.5	S 10 13.8	2 05.2	S 15 08.8	61.2	Gacrux	171	52.2	S 57 14.7
14	350 09.2	26 27.3	S 14 23.7	55 54.7	S 21 24.2	49 54.8	S 21 28.3	313 48.6	N 13 21.8	10 17.7	S 10 13.7	16 31.9	S 14 53.2	61.2	Gienah	175	44.2	S 17 40.5
15	5 11.6	41 27.3	S 14 22.9	70 53.9	S 21 23.8	64 55.3	S 21 27.9	328 50.7	N 13 21.9	25 19.9	S 10 13.6	30 58.6	S 14 37.5	61.2	Hadar	148	36.9	S 60 29.1
16	20 14.1	56 27.2	S 14 22.1	85 53.1	S 21 23.4	79 55.7	S 21 27.5	343 52.9	N 13 22.0	40 22.1	S 10 13.5	45 25.4	S 14 21.6	61.2	Hamal	327	52.1	N 23 34.6
17	35 16.5	71 27.2	S 14 21.3	100 52.2	S 21 23.0	94 56.2	S 21 27.2	358 55.0	N 13 22.1	55 24.2	S 10 13.4	59 52.2	S 14 05.7	61.2				
18	50 19.0	86 27.2	S 14 20.5	115 51.4	S 21 22.6	109 56.6	S 21 26.8	13 57.2	N 13 22.2	70 26.4	S 10 13.2	74 19.2	S 13 49.7	61.2	Kaus aust.	83	33.8	S 34 22.4
19	65 21.5	101 27.2	S 14 19.7	130 50.6	S 21 22.2	124 57.1	S 21 26.4	28 59.4	N 13 22.4	85 28.6	S 10 13.1	88 46.2	S 13 33.6	61.2	Kochab	137	19.7	N 74 03.0
20	80 23.9	116 27.2	S 14 18.9	145 49.7	S 21 21.8	139 57.5	S 21 26.1	44 01.5	N 13 22.5	100 30.8	S 10 13.0	103 13.4	S 13 17.4	61.2	Markab	13	30.9	N 15 20.0
21	95 26.4	131 27.2	S 14 18.0	160 48.9	S 21 21.4	154 57.9	S 21 25.7	59 03.7	N 13 22.6	115 33.0	S 10 12.9	117 40.6	S 13 01.2	61.2	Menkar	314	06.9	N 4 11.0
22	110 28.9	146 27.2	S 14 17.2	175 48.1	S 21 21.1	169 58.4	S 21 25.3	74 05.8	N 13 22.7	130 35.2	S 10 12.8	132 07.8	S 12 44.8	61.2	Menkent	147	58.4	S 36 29.2
23	125 31.3	161 27.2	S 14 16.4	190 47.3	S 21 20.7	184 58.8	S 21 25.0	89 08.0	N 13 22.8	145 37.3	S 10 12.7	146 35.2	S 12 28.4	61.2				
11 00	140 33.8	176 27.2	S 14 15.6	205 46.4	S 21 20.3	199 59.3	S 21 24.6	104 10.1	N 13 22.9	160 39.5	S 10 12.6	161 02.6	S 12 11.9	61.2	Miaplacidus	221	37.6	S 69 48.9
01	155 36.3	191 27.2	S 14 14.8	220 45.6	S 21 19.9	214 59.7	S 21 24.2	119 12.3	N 13 23.0	175 41.7	S 10 12.5	175 30.1	S 11 55.4	61.2	Mirfak	308	29.3	N 49 57.0
02</																		

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	FEBBRAIO	10
d h	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "
12 00	141 32.9	176 27.1 S 13 55.9	205 26.6 S 21 10.5	200 09.9 S 21 15.7	105 01.7 N 13 25.7	161 31.9 S 10 09.9	148 22.1 S 5 19.7	61.0	NOME	360	- AR	Dec.
01	156 35.4	191 27.1 S 13 55.1	220 25.8 S 21 10.0	215 10.4 S 21 15.3	120 03.9 N 13 25.8	176 34.1 S 10 09.8	162 51.2 S 5 02.1	61.0	Acamar	315	12.3	S 40 12.8
02	171 37.9	206 27.1 S 13 54.3	235 25.0 S 21 09.6	230 10.8 S 21 14.9	135 06.0 N 13 25.9	191 36.3 S 10 09.7	177 20.3 S 4 44.5	61.0	Achernar	335	20.9	S 57 07.2
03	186 40.3	221 27.1 S 13 53.4	250 24.1 S 21 09.2	245 11.3 S 21 14.5	150 08.1 N 13 26.0	206 38.5 S 10 09.6	191 49.5 S 4 26.8	61.0	Acruir	173	00.5	S 63 13.8
04	201 42.8	236 27.1 S 13 52.6	265 23.3 S 21 08.8	260 11.7 S 21 14.1	165 10.3 N 13 26.1	221 40.6 S 10 09.5	206 18.7 S 4 09.1	60.9	Adhara	255	06.1	S 29 00.4
05	216 45.3	251 27.1 S 13 51.8	280 22.5 S 21 08.3	275 12.2 S 21 13.8	180 12.4 N 13 26.3	236 42.8 S 10 09.4	220 47.9 S 3 51.4	60.9	Aldebaran	290	40.4	N 16 33.5
06	231 47.7	266 27.1 S 13 51.0	295 21.7 S 21 07.9	290 12.6 S 21 13.4	195 14.6 N 13 26.4	251 45.0 S 10 09.3	235 17.2 S 3 33.7	60.9				
07	246 50.2	281 27.1 S 13 50.1	310 20.9 S 21 07.5	305 13.0 S 21 13.0	210 16.7 N 13 26.5	266 47.2 S 10 09.1	249 46.6 S 3 16.0	60.9	Alioth	166	13.3	N 55 49.5
08	261 52.6	296 27.1 S 13 49.3	325 20.0 S 21 07.0	320 13.5 S 21 12.6	225 18.9 N 13 26.6	281 49.4 S 10 09.0	264 16.0 S 2 58.3	60.9	Alkaid	152	52.4	N 49 11.3
09	276 55.1	311 27.1 S 13 48.5	340 19.2 S 21 06.6	335 13.9 S 21 12.2	240 21.0 N 13 26.7	296 51.6 S 10 08.9	278 45.4 S 2 40.6	60.8	Alnair	27	34.3	S 46 50.8
10	291 57.6	326 27.1 S 13 47.6	355 18.4 S 21 06.2	350 14.4 S 21 11.9	255 23.2 N 13 26.8	311 53.7 S 10 08.8	293 14.9 S 2 22.9	60.8	Alnilam	275	38.3	S 1 11.3
11	307 00.0	341 27.1 S 13 46.8	10 17.6 S 21 05.8	5 14.8 S 21 11.5	270 25.3 N 13 27.0	326 55.9 S 10 08.7	307 44.4 S 2 05.2	60.8	Alphard	217	48.2	S 8 45.8
12	322 02.5	356 27.1 S 13 46.0	25 16.8 S 21 05.3	20 15.3 S 21 11.1	285 27.4 N 13 27.1	341 58.1 S 10 08.6	322 13.9 S 1 47.4	60.8				
13	337 05.0	11 27.1 S 13 45.1	40 15.9 S 21 04.9	35 15.7 S 21 10.7	300 29.6 N 13 27.2	357 00.3 S 10 08.5	336 43.5 S 1 29.7	60.8	Alphecca	126	04.4	N 26 37.7
14	352 07.4	26 27.1 S 13 44.3	55 15.1 S 21 04.4	50 16.2 S 21 10.3	315 31.7 N 13 27.3	12 02.5 S 10 08.4	351 13.1 S 1 12.0	60.7	Alpheratz	357	35.8	N 29 13.4
15	7 09.9	41 27.1 S 13 43.5	70 14.3 S 21 04.0	65 16.6 S 21 09.9	330 33.9 N 13 27.4	27 04.6 S 10 08.3	5 42.8 S 0 54.3	60.7	Altair	62	01.0	N 8 55.8
16	22 12.4	56 27.1 S 13 42.7	85 13.5 S 21 03.6	80 17.1 S 21 09.6	345 36.0 N 13 27.5	42 06.8 S 10 08.1	20 12.4 S 0 36.6	60.7	Ankaa	353	08.2	S 42 10.8
17	37 14.8	71 27.1 S 13 41.8	100 12.7 S 21 03.1	95 17.5 S 21 09.2	0 38.2 N 13 27.7	57 09.0 S 10 08.0	34 42.1 S 0 18.9	60.7	Antares	112	16.9	S 26 29.1
18	52 17.3	86 27.1 S 13 41.0	115 11.9 S 21 02.7	110 18.0 S 21 08.8	15 40.3 N 13 27.8	72 11.2 S 10 07.9	49 11.9 S 0 01.2	60.6				
19	67 19.7	101 27.1 S 13 40.2	130 11.0 S 21 02.2	125 18.4 S 21 08.4	30 42.4 N 13 27.9	87 13.4 S 10 07.8	63 41.7 N 0 16.4	60.6	Arcturus	145	48.5	N 19 03.2
20	82 22.2	116 27.1 S 13 39.3	145 10.2 S 21 01.8	140 18.9 S 21 08.0	45 44.6 N 13 28.0	102 15.6 S 10 07.7	78 11.5 N 0 34.0	60.6	Atria	107	12.0	S 69 04.0
21	97 24.7	131 27.2 S 13 38.5	160 09.4 S 21 01.4	155 19.3 S 21 07.6	60 46.7 N 13 28.1	117 17.7 S 10 07.6	92 41.1 N 0 51.7	60.6	Avior	234	14.4	S 59 35.2
22	112 27.1	146 27.2 S 13 37.7	175 08.6 S 21 00.9	170 19.8 S 21 07.3	75 48.9 N 13 28.2	132 19.9 S 10 07.5	107 11.3 N 1 09.3	60.6	Bellatrix	278	23.5	N 6 22.2
23	127 29.6	161 27.2 S 13 36.8	190 07.8 S 21 00.5	185 20.2 S 21 06.9	90 51.0 N 13 28.4	147 22.1 S 10 07.4	121 41.0 N 1 26.9	60.5	Betelgeuse	270	52.7	N 7 24.6
13 00	142 32.1	176 27.2 S 13 36.0	205 07.0 S 21 00.0	200 20.7 S 21 06.5	105 53.1 N 13 28.5	162 24.3 S 10 07.2	136 10.9 N 1 44.4	60.5	Canopus	263	52.3	S 52 42.7
01	157 34.5	191 27.2 S 13 35.2	220 06.1 S 20 59.6	215 21.1 S 21 06.1	120 55.3 N 13 28.6	177 26.5 S 10 07.1	150 40.8 N 2 01.9	60.5	Capella	280	22.8	N 46 01.5
02	172 37.0	206 27.2 S 13 34.3	235 05.3 S 20 59.1	230 21.6 S 21 05.7	135 57.4 N 13 28.7	192 28.7 S 10 07.0	165 10.7 N 2 19.4	60.4	Castor	245	57.7	N 31 50.1
03	187 39.5	221 27.2 S 13 33.5	250 04.5 S 20 58.7	245 22.0 S 21 05.3	150 59.6 N 13 28.8	207 30.8 S 10 06.9	179 40.7 N 2 36.9	60.4	Deneb	49	26.8	N 45 21.8
04	202 41.9	236 27.2 S 13 32.6	265 03.7 S 20 58.2	260 22.4 S 21 04.9	166 01.7 N 13 28.9	222 33.0 S 10 06.8	194 10.6 N 2 54.4	60.4	Denebola	182	25.4	N 14 26.1
05	217 44.4	251 27.2 S 13 31.8	280 02.9 S 20 57.8	275 22.9 S 21 04.5	181 03.8 N 13 29.1	237 35.2 S 10 06.7	208 40.6 N 3 11.8	60.4				
06	232 46.9	266 27.2 S 13 31.0	295 02.1 S 20 57.3	290 23.3 S 21 04.1	196 06.0 N 13 29.2	252 37.4 S 10 06.6	223 10.6 N 3 29.2	60.3	Diphda	348	48.2	S 17 51.5
07	247 49.3	281 27.2 S 13 30.1	310 01.3 S 20 56.9	305 23.8 S 21 03.8	211 08.1 N 13 29.3	267 39.6 S 10 06.5	237 40.6 N 3 46.5	60.3	Dubhe	193	41.3	N 61 37.1
08	262 51.8	296 27.3 S 13 29.3	325 00.5 S 20 56.4	320 24.2 S 21 03.4	226 10.3 N 13 29.4	282 41.7 S 10 06.4	252 10.6 N 4 03.8	60.3	Elnath	278	02.6	N 28 37.7
09	277 54.2	311 27.3 S 13 28.5	339 59.6 S 20 55.9	335 24.7 S 21 03.0	241 12.4 N 13 29.5	297 43.9 S 10 06.2	266 40.6 N 4 21.1	60.3	Etamin	90	42.9	N 51 28.8
10	292 56.7	326 27.3 S 13 27.6	354 58.8 S 20 55.5	350 25.1 S 21 02.6	256 14.5 N 13 29.6	312 46.1 S 10 06.1	281 10.7 N 4 38.3	60.2	Enif	33	39.9	N 9 59.0
11	307 59.2	341 27.3 S 13 26.8	9 58.0 S 20 55.0	5 25.6 S 21 02.2	271 16.7 N 13 29.8	327 48.3 S 10 06.0	295 40.7 N 4 55.5	60.2				
12	323 01.6	356 27.3 S 13 25.9	24 57.2 S 20 54.6	20 26.0 S 21 01.8	286 18.8 N 13 29.9	342 50.5 S 10 05.9	310 10.7 N 5 12.6	60.2	Fomalhaut	15	15.7	S 29 29.9
13	338 04.1	11 27.3 S 13 25.1	39 56.4 S 20 54.1	35 26.5 S 21 01.4	301 20.9 N 13 30.0	357 52.7 S 10 05.8	324 40.8 N 5 29.7	60.1	Gacrux	171	52.1	S 57 14.7
14	353 06.6	26 27.3 S 13 24.3	54 55.6 S 20 53.6	50 26.9 S 21 01.0	316 23.1 N 13 30.1	12 54.8 S 10 05.7	339 10.8 N 5 46.8	60.1	Gienah	175	44.1	S 17 40.6
15	8 09.0	41 27.3 S 13 23.4	69 54.8 S 20 53.2	65 27.4 S 21 00.6	331 25.2 N 13 30.2	27 57.0 S 10 05.6	353 40.9 N 6 03.8	60.1	Hadar	148	36.9	S 60 29.1
16	23 11.5	56 27.3 S 13 22.6	84 54.0 S 20 52.7	80 27.8 S 21 00.2	346 27.4 N 13 30.4	42 59.2 S 10 05.5	8 11.0 N 6 20.7	60.0	Hamal	327	52.1	N 23 34.6
17	38 14.0	71 27.4 S 13 21.7	99 53.2 S 20 52.2	95 28.3 S 20 59.8	1 29.5 S 13 30.5	58 01.4 S 10 05.4	22 41.0 N 6 37.6	60.0				
18	53 16.4	86 27.4 S 13 20.9	114 52.4 S 20 51.8	110 28.7 S 20 59.4	16 31.6 N 13 30.6	73 03.6 S 10 05.2	37 11.1 N 6 54.5	60.0	Kaus aust.	83	33.8	S 34 22.4
19	68 18.9	101 27.4 S 13 20.1	129 51.5 S 20 51.3	125 29.2 S 20 59.0	31 33.8 N 13 30.7	88 05.7 S 10 05.1	51 41.1 N 7 11.2	60.0	Kochab	137	19.6	N 74 03.0
20	83 21.3	116 27.4 S 13 19.2	144 50.7 S 20 50.8	140 29.7 S 20 58.6	46 35.9 N 13 30.8	103 07.9 S 10 05.0	66 11.2 N 7 28.0	59.9	Markab	13	30.9	N 15 20.0
21	98 23.8	131 27.4 S 13 18.4	159 49.9 S 20 50.4	155 30.1 S 20 58.3	61 38.0 N 13 30.9	118 10.1 S 10 04.9	80 41.2 N 7 44.7	59.9	Menkar	314	06.9	N 4 11.0
22	113 26.3	146 27.4 S 13 17.5	174 49.1 S 20 49.9	170 30.6 S 20 57.9	76 40.2 N 13 31.1	133 12.3 S 10 04.8	95 11.3 N 8 01.3	59.9	Menkent	147	58.4	S 36 29.2
23	128 28.7	161 27.4 S 13 16.7	189 48.3 S 20 49.4	185 31.0 S 20 57.5	91 42.3 N 13 31.2	148 14.5 S 10 04.7	109 41.3 N 8 17.8	59.8				
14 00	143 31.2	176 27.5 S 13 15.8	204 47.5 S 20 49.0	200 31.5 S 20 57.1	106 44.4 N 13 31.3	163 16.6 S 10 04.6	124 11.3 N 8 34.3	59.8	Miaplacidus	221	37.6	S 69 48.9
01	158 33.7	191 27.5 S 13 15.0	219 46.7 S 20 48.5	215 31.9 S 20 56.7	121 46.6 N 13 31.4	178 18.8 S 10 04.5	138 41.3 N 8 50.7	59.8	Mirfak	308	29.3	N 49 57.0
02	173 36.1	206 27.5 S 13 14.2	234 45.9 S 20 48.0	230 32.4 S 20 56.3	136 48.7 N 13 31.5	193 21.0 S 10 04.3	153 11.3 N 9 07.1	59.7	Mizar	158	46.2	N 54 47.7
03	188 38.6	221 27.5 S 13 13.3	249 45.1 S 20 47.5	245 32.8 S 20 55.9	151 50.8 N 13 31.7	208 23.2 S 10 04.2	167 41.3 N 9 23.4	59.7	Nunki	75	49.0	S 26 16.0
04	203 41.1	236 27.5 S 13 12.5	264 44.3 S 20 47.1	260 33.3 S 20 55.5	166 53.0 N 13 31.8	223 25.4 S 10 04.1	182 11.3 N 9 39.6	59.7	Peacock	53	07.4	S 56 39.5
05	218 43.5	251 27.5 S 13 11.6	279 43.5 S 20 46.6	275 33.7 S 20 55.1	181 55.1 N 13 31.9	238 27.6 S 10 04.0	196 41.3 N 9 55.8	59.6	Polaris	314	26.1	N 89 22.3
06	233 46.0	266 27.6 S 13 10.8	294 42.7 S 20 46.1	290 34.2 S 20 54.7	196 57.2 N 13 32.0	253 29.7 S 10 03.9	211 11.2 N 10 11.9	59.6	Pollux	243	17.9	N 27 58.1
07	248 48.5	281 27.6 S 13 09.9	309 41.9 S 20 45.6	305 34.6 S 20 54.3	211 59.4 N 13 32.1	268 31.9 S 10 03.8	225 41.2 N 10 27.9	59.6	Procyon	244	51.3	N 5 09.7
08	263 50.9	296 27.6 S 13 09.1	324 41.1 S 20 45.1	320 35.1 S 20 53.9	227 01.5 N 13 32.3	283 34.1 S 10 03.7	240 11.1 N 10 43.8	59.5				

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	FEBBRAIO	13
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
15 00	144 30.3	176 27.9	S 12 55.5	204 28.2	S 20 37.3	200 42.3	S 20 47.4	107 35.6	N 13 34.2	164 09.0	S 10 01.9	112 06.7	N 14 47.7	59.0	NOME	360	- AR	Dec.
01	159 32.8	191 28.0	S 12 54.6	219 27.4	S 20 36.8	215 42.8	S 20 47.0	122 37.7	N 13 34.3	179 11.2	S 10 01.8	126 36.2	N 15 02.2	58.9	Acamar	315 12.4	S 40 12.8	
02	174 35.3	206 28.0	S 12 53.8	234 26.6	S 20 36.3	230 43.2	S 20 46.6	137 39.8	N 13 34.4	194 13.4	S 10 01.7	141 05.6	N 15 16.6	58.9	Achernar	335 21.0	S 57 07.2	
03	189 37.7	221 28.0	S 12 52.9	249 25.9	S 20 35.8	245 43.7	S 20 46.2	152 42.0	N 13 34.5	209 15.5	S 10 01.6	155 35.1	N 15 30.9	58.9	AcruX	173 00.5	S 63 13.8	
04	204 40.2	236 28.0	S 12 52.1	264 25.1	S 20 35.3	260 44.2	S 20 45.8	167 44.1	N 13 34.6	224 17.7	S 10 01.4	170 04.4	N 15 45.1	58.8	Adhara	255 06.2	S 29 00.4	
05	219 42.7	251 28.1	S 12 51.2	279 24.3	S 20 34.8	275 44.6	S 20 45.4	182 46.2	N 13 34.8	239 19.9	S 10 01.3	184 33.8	N 15 59.1	58.8	Aldebaran	290 40.4	N 16 33.5	
06	234 45.1	266 28.1	S 12 50.4	294 23.5	S 20 34.3	290 45.1	S 20 45.0	197 48.4	N 13 34.9	254 22.1	S 10 01.2	199 03.1	N 16 13.1	58.8				
07	249 47.6	281 28.1	S 12 49.5	309 22.7	S 20 33.8	305 45.5	S 20 44.6	212 50.5	N 13 35.0	269 24.3	S 10 01.1	213 32.4	N 16 27.0	58.7	Alioth	166 13.2	N 55 49.5	
08	264 50.1	296 28.1	S 12 48.6	324 21.9	S 20 33.3	320 46.0	S 20 44.2	227 52.6	N 13 35.1	284 26.4	S 10 01.0	228 01.6	N 16 40.8	58.7	Alkaid	152 52.4	N 49 11.3	
09	279 52.5	311 28.2	S 12 47.8	339 21.1	S 20 32.7	335 46.4	S 20 43.8	242 54.7	N 13 35.3	299 28.6	S 10 00.9	242 30.8	N 16 54.4	58.7	Alnair	27 34.3	S 46 50.8	
10	294 55.0	326 28.2	S 12 46.9	354 20.3	S 20 32.2	350 46.9	S 20 43.3	257 56.9	N 13 35.4	314 30.8	S 10 00.8	257 00.0	N 17 08.0	58.6	Alnilam	275 38.3	S 1 11.3	
11	309 57.4	341 28.2	S 12 46.1	9 19.5	S 20 31.7	5 47.3	S 20 42.9	272 59.0	N 13 35.5	329 33.0	S 10 00.7	271 29.1	N 17 21.5	58.6	Alphard	217 48.2	S 8 45.9	
12	324 59.9	356 28.3	S 12 45.2	24 18.7	S 20 31.2	20 47.8	S 20 42.5	288 01.1	N 13 35.6	344 35.2	S 10 00.5	285 58.2	N 17 34.8	58.5				
13	340 02.4	11 28.3	S 12 44.4	39 17.9	S 20 30.7	35 48.3	S 20 42.1	303 03.2	N 13 35.7	359 37.3	S 10 00.4	300 27.2	N 17 48.0	58.5	Alphecca	126 04.4	N 26 37.7	
14	355 04.8	26 28.3	S 12 43.5	54 17.1	S 20 30.2	50 48.7	S 20 41.7	318 05.4	N 13 35.9	14 39.5	S 10 00.3	314 56.3	N 18 01.2	58.5	Alpheratz	357 35.8	N 29 13.4	
15	10 07.3	41 28.3	S 12 42.6	69 16.3	S 20 29.7	65 49.2	S 20 41.3	333 07.5	N 13 36.0	29 41.7	S 10 00.2	329 25.2	N 18 14.2	58.4	Altair	62 01.0	N 8 55.7	
16	25 09.8	56 28.4	S 12 41.8	84 15.5	S 20 29.2	80 49.6	S 20 40.9	348 09.6	N 13 36.1	44 43.9	S 10 00.1	343 54.1	N 18 27.1	58.4	Ankaa	353 08.2	S 42 10.8	
17	40 12.2	71 28.4	S 12 40.9	99 14.7	S 20 28.6	95 50.1	S 20 40.5	3 11.7	N 13 36.2	59 46.1	S 10 00.0	358 23.0	N 18 39.9	58.4	Antares	112 16.9	S 26 29.1	
18	55 14.7	86 28.4	S 12 40.1	114 13.9	S 20 28.1	110 50.5	S 20 40.1	18 13.9	N 13 36.3	74 48.2	S 9 59.9	12 51.9	N 18 52.5	58.3				
19	70 17.2	101 28.5	S 12 39.2	129 13.1	S 20 27.6	125 51.0	S 20 39.6	33 16.0	N 13 36.5	89 50.4	S 9 59.8	27 20.7	N 19 05.1	58.3	Arcturus	145 48.5	N 19 03.2	
20	85 19.6	116 28.5	S 12 38.4	144 12.3	S 20 27.1	140 51.5	S 20 39.2	48 18.1	N 13 36.6	104 52.6	S 9 59.6	41 49.4	N 19 17.5	58.3	Atria	107 12.0	S 69 04.0	
21	100 22.1	131 28.5	S 12 37.5	159 11.6	S 20 26.6	155 51.9	S 20 38.8	63 20.2	N 13 36.7	119 54.8	S 9 59.5	56 18.1	N 19 29.8	58.2	Avior	234 14.5	S 59 35.3	
22	115 24.6	146 28.5	S 12 36.6	174 10.8	S 20 26.0	170 52.4	S 20 38.4	78 22.3	N 13 36.8	134 57.0	S 9 59.4	70 46.8	N 19 42.0	58.2	Bellatrix	278 23.5	N 6 22.2	
23	130 27.0	161 28.6	S 12 35.8	189 10.0	S 20 25.5	185 52.8	S 20 38.0	93 24.5	N 13 37.0	149 59.1	S 9 59.3	85 15.4	N 19 54.1	58.2	Betelgeuse	270 52.7	N 7 24.6	
16 00	145 29.5	176 28.6	S 12 34.9	204 09.2	S 20 25.0	200 53.3	S 20 37.6	108 26.6	N 13 37.1	165 01.3	S 9 59.2	99 44.0	N 20 06.0	58.1	Canopus	263 52.4	S 52 42.7	
01	160 31.9	191 28.6	S 12 34.0	219 08.4	S 20 24.5	215 53.7	S 20 37.2	123 28.7	N 13 37.2	180 03.5	S 9 59.1	114 12.6	N 20 17.9	58.1	Capella	280 22.8	N 46 01.5	
02	175 34.4	206 28.7	S 12 33.2	234 07.6	S 20 23.9	230 54.2	S 20 36.7	138 30.8	N 13 37.3	195 05.7	S 9 59.0	128 41.1	N 20 29.6	58.1	Castor	245 57.7	N 31 50.1	
03	190 36.9	221 28.7	S 12 32.3	249 06.8	S 20 23.4	245 54.7	S 20 36.3	153 33.0	N 13 37.4	210 07.9	S 9 58.9	143 09.5	N 20 41.2	58.0	Deneb	49 26.8	N 45 21.8	
04	205 39.3	236 28.7	S 12 31.5	264 06.0	S 20 22.9	260 55.1	S 20 35.9	168 35.1	N 13 37.6	225 10.0	S 9 58.7	157 37.9	N 20 52.6	58.0	Denebola	182 25.4	N 14 26.1	
05	220 41.8	251 28.8	S 12 30.6	279 05.2	S 20 22.4	275 55.6	S 20 35.5	183 37.2	N 13 37.7	240 12.2	S 9 58.6	172 06.3	N 21 04.0	57.9				
06	235 44.3	266 28.8	S 12 29.7	294 04.5	S 20 21.8	290 56.0	S 20 35.1	198 39.3	N 13 37.8	255 14.4	S 9 58.5	186 34.6	N 21 15.2	57.9	Diphda	348 48.2	S 17 51.5	
07	250 46.7	281 28.8	S 12 28.9	309 03.7	S 20 21.3	305 56.5	S 20 34.6	213 41.4	N 13 37.9	270 16.6	S 9 58.4	201 02.9	N 21 26.2	57.9	Dubhe	193 41.2	N 61 37.1	
08	265 49.2	296 28.9	S 12 28.0	324 02.9	S 20 20.8	320 57.0	S 20 34.2	228 43.6	N 13 38.1	285 18.8	S 9 58.3	215 31.1	N 21 37.2	57.8	Elnath	278 02.6	N 28 37.7	
09	280 51.7	311 28.9	S 12 27.1	339 02.1	S 20 20.2	335 57.4	S 20 33.8	243 45.7	N 13 38.2	300 20.9	S 9 58.2	229 59.3	N 21 48.0	57.8	Etamin	90 42.8	N 51 28.8	
10	295 54.1	326 28.9	S 12 26.3	354 01.3	S 20 19.7	350 57.9	S 20 33.4	258 47.8	N 13 38.3	315 23.1	S 9 58.1	244 27.4	N 21 58.7	57.8	Enif	33 39.8	N 9 59.0	
11	310 56.6	341 29.0	S 12 25.4	9 00.5	S 20 19.2	5 58.3	S 20 33.0	273 49.9	N 13 38.4	330 25.3	S 9 58.0	258 55.5	N 22 09.2	57.7				
12	325 59.1	356 29.0	S 12 24.6	23 59.7	S 20 18.6	20 58.8	S 20 32.6	288 52.0	N 13 38.5	345 27.5	S 9 57.8	273 23.6	N 22 19.7	57.7	Fomalhaut	15 15.7	S 29 29.9	
13	341 01.5	11 29.1	S 12 23.7	38 59.0	S 20 18.1	35 59.3	S 20 32.1	303 54.2	N 13 38.7	0 29.7	S 9 57.7	287 51.6	N 22 29.9	57.7	Gacrux	171 52.1	S 57 14.7	
14	356 04.0	26 29.1	S 12 22.8	53 58.2	S 20 17.6	50 59.7	S 20 31.7	318 56.3	N 13 38.8	15 31.8	S 9 57.6	302 19.6	N 22 40.1	57.6	Gienah	175 44.1	S 17 40.6	
15	11 06.4	41 29.1	S 12 22.0	68 57.4	S 20 17.0	66 00.2	S 20 31.3	333 58.4	N 13 38.9	30 34.0	S 9 57.5	316 47.5	N 22 50.1	57.6	Hadar	148 36.9	S 60 29.1	
16	26 08.9	56 29.2	S 12 21.1	83 56.6	S 20 16.5	81 00.6	S 20 30.9	349 00.5	N 13 39.0	45 36.2	S 9 57.4	331 15.4	N 23 00.0	57.6	Hamal	327 52.2	N 23 34.6	
17	41 11.4	71 29.2	S 12 20.2	98 55.8	S 20 15.9	96 01.1	S 20 30.4	4 02.6	N 13 39.2	60 38.4	S 9 57.3	345 43.2	N 23 09.7	57.5				
18	56 13.8	86 29.2	S 12 19.4	113 55.0	S 20 15.4	111 01.6	S 20 30.0	19 04.8	N 13 39.3	75 40.6	S 9 57.2	0 11.0	N 23 19.4	57.5	Kaus aust.	83 33.8	S 34 22.4	
19	71 16.3	101 29.3	S 12 18.5	128 54.3	S 20 14.8	126 02.0	S 20 29.6	34 06.9	N 13 39.4	90 42.7	S 9 57.1	14 38.7	N 23 28.8	57.5	Kochab	137 19.5	N 74 03.0	
20	86 18.8	116 29.3	S 12 17.6	143 53.5	S 20 14.3	141 02.5	S 20 29.2	49 09.0	N 13 39.5	105 44.9	S 9 57.0	29 06.5	N 23 38.1	57.4	Markab	13 30.9	N 15 20.0	
21	101 21.2	131 29.3	S 12 16.7	158 52.7	S 20 13.8	156 02.9	S 20 28.8	64 11.1	N 13 39.7	120 47.1	S 9 56.8	43 34.1	N 23 47.3	57.4	Menkar	314 07.0	N 4 11.0	
22	116 23.7	146 29.4	S 12 15.9	173 51.9	S 20 13.2	171 03.4	S 20 28.3	79 13.2	N 13 39.8	135 49.3	S 9 56.7	58 01.7	N 23 56.4	57.4	Menkent	147 58.4	S 36 29.2	
23	131 26.2	161 29.4	S 12 15.0	188 51.1	S 20 12.7	186 03.9	S 20 27.9	94 15.3	N 13 39.9	150 51.5	S 9 56.6	72 29.3	N 24 05.3	57.3				
17 00	146 28.6	176 29.5	S 12 14.1	203 50.3	S 20 12.1	201 04.3	S 20 27.5	109 17.5	N 13 40.0	165 53.6	S 9 56.5	86 56.9	N 24 14.1	57.3	Miaplacidus	221 37.6	S 69 48.9	
01	161 31.1	191 29.5	S 12 13.3	218 49.6	S 20 11.6	216 04.8	S 20 27.1	124 19.6	N 13 40.									

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	FEBBRAIO	16
d h	'	'	'	'	'	'	'	'	'	'	'	'
18 00	147 27.8	176 30.5 S 11 53.2	203 31.7 S 19 58.6	201 15.4 S 20 17.2	110 08.2 N 13 43.0	166 45.9 S 9 53.8	73 47.8 N 27 00.2	56.5	NOME	360	- AR	Dec.
01	162 30.2	191 30.5 S 11 52.3	218 31.0 S 19 58.1	216 15.9 S 20 16.7	125 10.3 N 13 43.1	181 48.1 S 9 53.7	88 14.6 N 27 05.2	56.5	Acamar	315	12.4	S 40 12.8
02	177 32.7	206 30.6 S 11 51.4	233 30.2 S 19 57.5	231 16.4 S 20 16.3	140 12.4 S 13 43.3	196 50.3 S 9 53.6	102 41.4 N 27 10.1	56.5	Achernar	335	21.0	S 57 07.1
03	192 35.2	221 30.6 S 11 50.5	248 29.4 S 19 56.9	246 16.8 S 20 15.9	155 14.5 N 13 43.4	211 52.5 S 9 53.5	117 08.1 N 27 14.8	56.5	AcruX	173	00.5	S 63 13.8
04	207 37.6	236 30.7 S 11 49.7	263 28.6 S 19 56.3	261 17.3 S 20 15.4	170 16.6 N 13 43.5	226 54.7 S 9 53.3	131 34.9 N 27 19.3	56.4	Adhara	255	06.2	S 29 00.4
05	222 40.1	251 30.7 S 11 48.8	278 27.9 S 19 55.7	276 17.8 S 20 15.0	185 18.7 N 13 43.6	241 56.8 S 9 53.2	146 01.6 N 27 23.7	56.4	Aldebaran	290	40.4	N 16 33.5
06	237 42.5	266 30.8 S 11 47.9	293 27.1 S 19 55.2	291 18.2 S 20 14.6	200 20.9 N 13 43.8	256 59.0 S 9 53.1	160 28.3 N 27 28.0	56.4				
07	252 45.0	281 30.8 S 11 47.0	308 26.3 S 19 54.6	306 18.7 S 20 14.1	215 23.0 N 13 43.9	272 01.2 S 9 53.0	174 55.0 N 27 32.1	56.3	Alioth	166	13.2	N 55 49.5
08	267 47.5	296 30.9 S 11 46.1	323 25.6 S 19 54.0	321 19.2 S 20 13.7	230 25.1 N 13 44.0	287 03.4 S 9 52.9	189 21.7 N 27 36.0	56.3	Alkaid	152	52.3	N 49 11.3
09	282 49.9	311 30.9 S 11 45.3	338 24.8 S 19 53.4	336 19.6 S 20 13.3	245 27.2 N 13 44.1	302 05.6 S 9 52.8	203 48.4 N 27 39.8	56.3	Alnair	27	34.3	S 46 50.8
10	297 52.4	326 31.0 S 11 44.4	353 24.0 S 19 52.8	351 20.1 S 20 12.8	260 29.3 N 13 44.3	317 07.7 S 9 52.7	218 15.1 N 27 43.4	56.3	Alnilam	275	38.3	S 1 11.3
11	312 54.9	341 31.0 S 11 43.5	8 23.3 S 19 52.3	6 20.6 S 20 12.4	275 31.4 N 13 44.4	332 09.9 S 9 52.6	232 41.8 N 27 46.8	56.2	Alphard	217	48.2	S 8 45.9
12	327 57.3	356 31.1 S 11 42.6	23 22.5 S 19 51.7	21 21.0 S 20 11.9	290 33.5 N 13 44.5	347 12.1 S 9 52.4	247 08.5 N 27 50.2	56.2				
13	342 59.8	11 31.1 S 11 41.7	38 21.7 S 19 51.1	36 21.5 S 20 11.5	305 35.6 N 13 44.6	2 14.3 S 9 52.3	261 35.1 N 27 53.3	56.2	Alphecca	126	04.4	N 26 37.7
14	358 02.3	26 31.2 S 11 40.9	53 21.0 S 19 50.5	51 22.0 S 20 11.1	320 37.7 N 13 44.8	17 16.5 S 9 52.2	276 01.8 N 27 56.3	56.1	Alpheratz	357	35.8	N 29 13.4
15	13 04.7	41 31.2 S 11 40.0	68 20.2 S 19 49.9	66 22.4 S 20 10.6	335 39.8 N 13 44.9	32 18.6 S 9 52.1	290 28.5 N 27 59.1	56.1	Altair	62	01.0	N 8 55.7
16	28 07.2	56 31.3 S 11 39.1	83 19.4 S 19 49.3	81 22.9 S 20 10.2	350 41.9 N 13 45.0	47 20.8 S 9 52.0	304 55.1 N 28 01.8	56.1	Ankaa	353	08.2	S 42 10.8
17	43 09.7	71 31.3 S 11 38.2	98 18.7 S 19 48.7	96 23.4 S 20 09.8	5 44.0 N 13 45.1	62 23.0 S 9 51.9	319 21.8 N 28 04.3	56.1	Antares	112	16.8	S 26 29.1
18	58 12.1	86 31.4 S 11 37.3	113 17.9 S 19 48.1	111 23.8 S 20 09.3	20 46.1 N 13 45.3	77 25.2 S 9 51.8	333 48.5 N 28 06.7	56.0				
19	73 14.6	101 31.4 S 11 36.4	128 17.1 S 19 47.5	126 24.3 S 20 08.9	35 48.3 N 13 45.4	92 27.3 S 9 51.7	348 15.2 N 28 08.9	56.0	Arcturus	145	48.5	N 19 03.2
20	88 17.0	116 31.5 S 11 35.6	143 16.4 S 19 47.0	141 24.8 S 20 08.4	50 50.4 N 13 45.5	107 29.5 S 9 51.5	2 41.9 N 28 10.9	56.0	Atria	107	11.9	S 69 04.0
21	103 19.5	131 31.5 S 11 34.7	158 15.6 S 19 46.4	156 25.2 S 20 08.0	65 52.5 N 13 45.6	122 31.7 S 9 51.4	17 08.6 N 28 12.8	56.0	Avior	234	14.5	S 59 35.3
22	118 22.0	146 31.6 S 11 33.8	173 14.8 S 19 45.8	171 25.7 S 20 07.5	80 54.6 N 13 45.8	137 33.9 S 9 51.3	31 35.3 N 28 14.6	55.9	Bellatrix	278	23.5	N 6 22.2
23	133 24.4	161 31.7 S 11 32.9	188 14.1 S 19 45.2	186 26.2 S 20 07.1	95 56.7 N 13 45.9	152 36.1 S 9 51.2	46 02.0 N 28 16.2	55.9	Betelgeuse	270	52.7	N 7 24.6
19 00	148 26.9	176 31.7 S 11 32.0	203 13.3 S 19 44.6	201 26.6 S 20 06.7	110 58.8 N 13 46.0	167 38.2 S 9 51.1	60 28.8 N 28 17.6	55.9	Canopus	263	52.4	S 52 42.7
01	163 29.4	191 31.8 S 11 31.1	218 12.6 S 19 44.0	216 27.1 S 20 06.2	126 00.9 N 13 46.1	182 40.4 S 9 51.0	74 55.5 N 28 18.8	55.9	Capella	280	22.8	N 46 01.5
02	178 31.8	206 31.8 S 11 30.3	233 11.8 S 19 43.4	231 27.6 S 20 05.8	141 03.0 N 13 46.3	197 42.6 S 9 50.9	89 22.3 N 28 20.0	55.8	Castor	245	57.7	N 31 50.1
03	193 34.3	221 31.9 S 11 29.4	248 11.0 S 19 42.8	246 28.0 S 20 05.3	156 05.1 N 13 46.4	212 44.8 S 9 50.8	103 49.1 N 28 20.9	55.8	Deneb	49	26.8	N 45 21.8
04	208 36.8	236 31.9 S 11 28.5	263 10.3 S 19 42.2	261 28.5 S 20 04.9	171 07.2 N 13 46.5	227 47.0 S 9 50.6	118 15.9 N 28 21.7	55.8	Denebola	182	25.4	N 14 26.1
05	223 39.2	251 32.0 S 11 27.6	278 09.5 S 19 41.6	276 29.0 S 20 04.4	186 09.3 N 13 46.7	242 49.1 S 9 50.5	132 42.7 N 28 22.4	55.8				
06	238 41.7	266 32.0 S 11 26.7	293 08.8 S 19 41.0	291 29.4 S 20 04.0	201 11.4 N 13 46.8	257 51.3 S 9 50.4	147 09.5 N 28 22.8	55.7	Diphda	348	48.3	S 17 51.5
07	253 44.1	281 32.1 S 11 25.8	308 08.0 S 19 40.4	306 29.9 S 20 03.6	216 13.5 N 13 46.9	272 53.5 S 9 50.3	161 36.4 N 28 23.2	55.7	Dubhe	193	41.2	N 61 37.1
08	268 46.6	296 32.2 S 11 24.9	323 07.2 S 19 39.7	321 30.4 S 20 03.1	231 15.6 N 13 47.0	287 55.7 S 9 50.2	176 03.3 N 28 23.4	55.7	Elnath	278	02.6	N 28 37.7
09	283 49.1	311 32.2 S 11 24.1	338 06.5 S 19 39.1	336 30.9 S 20 02.7	246 17.7 N 13 47.2	302 57.8 S 9 50.1	190 30.2 N 28 23.4	55.7	Etamin	90	42.8	N 51 28.8
10	298 51.5	326 32.3 S 11 23.2	353 05.7 S 19 38.5	351 31.3 S 20 02.2	261 19.8 N 13 47.3	318 00.0 S 9 50.0	204 57.2 N 28 23.3	55.6	Enif	33	39.8	N 9 59.0
11	313 54.0	341 32.3 S 11 22.3	8 05.0 S 19 37.9	6 31.8 S 20 01.8	276 21.9 N 13 47.4	333 02.2 S 9 49.9	219 24.2 N 28 23.0	55.6				
12	328 56.5	356 32.4 S 11 21.4	23 04.2 S 19 37.3	21 32.3 S 20 01.3	291 24.0 N 13 47.5	348 04.4 S 9 49.7	233 51.2 N 28 22.5	55.6	Fomalhaut	15	15.7	S 29 29.9
13	343 58.9	11 32.4 S 11 20.5	38 03.5 S 19 36.7	36 32.7 S 20 00.9	306 26.1 N 13 47.7	3 06.6 S 9 49.6	248 18.2 N 28 22.0	55.6	Gacrux	171	52.1	S 57 14.7
14	359 01.4	26 32.5 S 11 19.6	53 02.7 S 19 36.1	51 33.2 S 20 00.4	321 28.2 N 13 47.8	18 08.7 S 9 49.5	262 45.3 N 28 21.2	55.5	Gienah	175	44.1	S 17 40.6
15	14 03.9	41 32.6 S 11 18.7	68 01.9 S 19 35.5	66 33.7 S 20 00.0	336 30.3 N 13 47.9	33 10.9 S 9 49.4	277 12.4 N 28 20.3	55.5	Hadar	148	36.8	S 60 29.1
16	29 06.3	56 32.6 S 11 17.8	83 01.2 S 19 34.9	81 34.1 S 19 59.5	351 32.4 N 13 48.1	48 13.1 S 9 49.3	291 39.6 N 28 19.3	55.5	Hamal	327	52.2	N 23 34.6
17	44 08.8	71 32.7 S 11 16.9	98 00.4 S 19 34.3	96 34.6 S 19 59.1	6 34.5 S 13 48.2	63 15.3 S 9 49.2	306 06.7 N 28 18.1	55.5				
18	59 11.3	86 32.7 S 11 16.0	112 59.7 S 19 33.6	111 35.1 S 19 58.6	21 36.6 N 13 48.3	78 17.5 S 9 49.1	320 34.0 N 28 16.8	55.5	Kaus aust.	83	33.7	S 34 22.4
19	74 13.7	101 32.8 S 11 15.2	127 58.9 S 19 33.0	126 35.6 S 19 58.2	36 38.7 N 13 48.4	93 19.6 S 9 49.0	335 01.2 N 28 15.3	55.4	Kochab	137	19.5	N 74 03.0
20	89 16.2	116 32.9 S 11 14.3	142 58.2 S 19 32.4	141 36.0 S 19 57.7	51 40.8 N 13 48.6	108 21.8 S 9 48.8	349 28.6 N 28 13.6	55.4	Markab	13	30.9	N 15 20.0
21	104 18.6	131 32.9 S 11 13.4	157 57.4 S 19 31.8	156 36.5 S 19 57.3	66 42.9 N 13 48.7	123 24.0 S 9 48.7	3 55.9 N 28 11.8	55.4	Menkar	314	07.0	N 4 11.0
22	119 21.1	146 33.0 S 11 12.5	172 56.7 S 19 31.2	171 37.0 S 19 56.8	81 45.0 N 13 48.8	138 26.2 S 9 48.6	18 23.3 N 28 09.9	55.4	Menkent	147	58.4	S 36 29.2
23	134 23.6	161 33.0 S 11 11.6	187 55.9 S 19 30.5	186 37.4 S 19 56.4	96 47.1 N 13 48.9	153 28.3 S 9 48.5	32 50.7 N 28 07.8	55.3				
20 00	149 26.0	176 33.1 S 11 10.7	202 55.2 S 19 29.9	201 37.9 S 19 55.9	111 49.2 N 13 49.1	168 30.5 S 9 48.4	47 18.2 N 28 05.6	55.3	Miaplacidus	221	37.6	S 69 49.0
01	164 28.5	191 33.2 S 11 09.8	217 54.4 S 19 29.3	216 38.4 S 19 55.5	126 51.3 N 13 49.2	183 32.7 S 9 48.3	61 45.8 N 28 03.2	55.3	Mirfak	308	29.4	N 49 57.0
02	179 31.0	206 33.2 S 11 08.9	232 53.7 S 19 28.7	231 38.9 S 19 55.0	141 53.4 N 13 49.3	198 34.9 S 9 48.2	76 13.4 N 28 00.7	55.3	Mizar	158	46.2	N 54 47.7
03	194 33.4	221 33.3 S 11 08.0	247 52.9 S 19 28.1	246 39.3 S 19 54.6	156 55.5 N 13 49.5	213 37.1 S 9 48.0	90 41.0 N 27 58.0	55.3	Nunki	75	48.9	S 26 16.0
04	209 35.9	236 33.3 S 11 07.1	262 52.2 S 19 27.4	261 39.8 S 19 54.1	171 57.6 N 13 49.6	228 39.2 S 9 47.9	105 08.7 N 27 55.2	55.2	Peacock	53	07.4	S 56 39.4
05	224 38.4	251 33.4 S 11 06.2	277 51.4 S 19 26.8	276 40.3 S 19 53.7	186 59.7 N 13 49.7	243 41.4 S 9 47.8	119 36.4 N 27 52.2	55.2	Polaris	314	29.1	N 89 22.3
06	239 40.8	266 33.5 S 11 05.3	292 50.7 S 19 26.2	291 40.7 S 19 53.2	202 01.8 N 13 49.8	258 43.6 S 9 47.7	134 04.2 N 27 49.1	55.2	Pollux	243	17.9	N 27 58.1
07	254 43.3	281 33.5 S 11 04.4	307 49.9 S 19 25.5	306 41.2 S 19 52.8	217 03.9 N 13 50.0	273 45.8 S 9 47.6	148 32.1 N 27 45.9	55.2	Procyon	244	51.3	N 5 09.7
08	269 45.8	296 33.6 S 11 03.6	322 49.2 S 19 24.9	321 41.7 S 19 52.3	232 06.0 N 13 50.1	288 48.0 S 9 47.5	163 00.0 N 27 42.5	55.2	Rasalhague			

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	FEBBRAIO	19
d h	'	'	'	'	'	'	'	'	'	'	'	'
21 00	150 25.2	176 34.7 S 10 49.2	202 37.2 S 19 14.7	201 49.3 S 19 45.0	112 39.6 N 13 52.2	169 22.8 S 9 45.7	34 35.1 N 26 29.8	54.9	NOME	360	- AR	Dec.
01	165 27.6	191 34.7 S 10 48.3	217 36.5 S 19 14.1	216 49.8 S 19 44.5	127 41.7 N 13 52.3	184 25.0 S 9 45.6	49 04.1 N 26 24.1	54.9	Acamar	315	12.4	S 40 12.7
02	180 30.1	206 34.8 S 10 47.4	232 35.8 S 19 13.4	231 50.2 S 19 44.1	142 43.8 N 13 52.4	199 27.2 S 9 45.4	63 33.2 N 26 18.3	54.8	Achernar	335	21.0	S 57 07.1
03	195 32.6	221 34.9 S 10 46.5	247 35.0 S 19 12.8	246 50.7 S 19 43.6	157 45.9 N 13 52.5	214 29.3 S 9 45.3	78 02.4 N 26 12.4	54.8	Acruz	173	00.4	S 63 13.8
04	210 35.0	236 34.9 S 10 45.6	262 34.3 S 19 12.1	261 51.2 S 19 43.1	172 47.9 N 13 52.7	229 31.5 S 9 45.2	92 31.7 N 26 06.3	54.8	Adhara	255	06.2	S 29 00.4
05	225 37.5	251 35.0 S 10 44.7	277 33.5 S 19 11.5	276 51.7 S 19 42.7	187 50.0 N 13 52.8	244 33.7 S 9 45.1	107 01.0 N 26 00.2	54.8	Aldebaran	290	40.4	N 16 33.5
06	240 40.0	266 35.1 S 10 43.8	292 32.8 S 19 10.8	291 52.1 S 19 42.2	202 52.1 N 13 52.9	259 35.9 S 9 45.0	121 30.4 N 25 53.9	54.8				
07	255 42.4	281 35.1 S 10 42.9	307 32.1 S 19 10.2	306 52.6 S 19 41.8	217 54.2 N 13 53.1	274 38.0 S 9 44.9	135 59.8 N 25 47.4	54.8	Alioth	166	13.2	N 55 49.5
08	270 44.9	296 35.2 S 10 42.0	322 31.3 S 19 09.5	321 53.1 S 19 41.3	232 56.3 N 13 53.2	289 40.2 S 9 44.8	150 29.4 N 25 40.9	54.7	Alkaid	152	52.3	N 49 11.3
09	285 47.4	311 35.3 S 10 41.1	337 30.6 S 19 08.9	336 53.6 S 19 40.8	247 58.4 N 13 53.3	304 42.4 S 9 44.7	164 59.0 N 25 34.3	54.7	Alnair	27	34.3	S 46 50.8
10	300 49.8	326 35.3 S 10 40.2	352 29.8 S 19 08.2	351 54.0 S 19 40.4	263 00.5 N 13 53.5	319 44.6 S 9 44.5	179 28.7 N 25 27.5	54.7	Alnilam	275	38.3	S 1 11.3
11	315 52.3	341 35.4 S 10 39.3	7 29.1 S 19 07.6	6 54.5 S 19 39.9	278 02.6 N 13 53.6	334 46.8 S 9 44.4	193 58.5 N 25 20.6	54.7	Alphard	217	48.2	S 8 45.9
12	330 54.8	356 35.5 S 10 38.4	22 28.4 S 19 06.9	21 55.0 S 19 39.4	293 04.7 N 13 53.7	349 48.9 S 9 44.3	208 28.3 N 25 13.6	54.7				
13	345 57.2	11 35.6 S 10 37.5	37 27.6 S 19 06.2	36 55.5 S 19 39.0	308 06.8 N 13 53.8	4 51.1 S 9 44.2	222 58.3 N 25 06.5	54.7	Alphecca	126	04.3	N 26 37.7
14	0 59.7	26 35.6 S 10 36.6	52 26.9 S 19 05.6	51 55.9 S 19 38.5	323 08.9 N 13 54.0	19 53.3 S 9 44.1	237 28.3 N 24 59.2	54.7	Alpheratz	357	35.8	N 29 13.4
15	16 02.1	41 35.7 S 10 35.7	67 26.2 S 19 04.9	66 56.4 S 19 38.0	338 11.0 N 13 54.1	34 55.5 S 9 44.0	251 58.3 N 24 51.9	54.6	Altair	62	00.9	N 8 55.7
16	31 04.6	56 35.8 S 10 34.8	82 25.4 S 19 04.3	81 56.9 S 19 37.6	353 13.0 N 13 54.2	49 57.6 S 9 43.9	266 28.5 N 24 44.4	54.6	Ankaa	353	08.2	S 42 10.8
17	46 07.1	71 35.9 S 10 33.9	97 24.7 S 19 03.6	96 57.4 S 19 37.1	8 15.1 N 13 54.4	64 59.8 S 9 43.8	280 58.8 N 24 36.8	54.6	Antares	112	16.8	S 26 29.1
18	61 09.5	86 35.9 S 10 33.0	112 24.0 S 19 02.9	111 57.9 S 19 36.2	23 17.2 N 13 54.5	80 02.0 S 9 43.6	295 29.1 N 24 29.1	54.6				
19	76 12.0	101 36.0 S 10 32.1	127 23.2 S 19 02.3	126 58.3 S 19 36.2	38 19.3 N 13 54.6	95 04.2 S 9 43.5	309 59.5 N 24 21.3	54.6	Arcturus	145	48.4	N 19 03.2
20	91 14.5	116 36.1 S 10 31.2	142 22.5 S 19 01.6	141 58.8 S 19 35.7	53 21.4 N 13 54.8	110 06.4 S 9 43.4	324 30.0 N 24 13.4	54.6	Atria	107	11.9	S 69 04.0
21	106 16.9	131 36.1 S 10 30.2	157 21.8 S 19 01.0	156 59.3 S 19 35.2	68 23.5 N 13 54.9	125 08.5 S 9 43.3	339 00.5 N 24 05.4	54.6	Avior	234	14.5	S 59 35.3
22	121 19.4	146 36.2 S 10 29.3	172 21.0 S 19 00.3	171 59.8 S 19 34.8	83 25.6 N 13 55.0	140 10.7 S 9 43.2	353 31.2 N 23 57.3	54.5	Bellatrix	278	23.5	N 6 22.2
23	136 21.9	161 36.3 S 10 28.4	187 20.3 S 18 59.6	187 00.2 S 19 34.3	98 27.7 N 13 55.1	155 12.9 S 9 43.1	8 01.9 N 23 49.0	54.5	Betelgeuse	270	52.7	N 7 24.6
22 00	151 24.3	176 36.4 S 10 27.5	202 19.6 S 18 59.0	202 00.7 S 19 33.8	113 29.8 N 13 55.3	170 15.1 S 9 43.0	22 32.7 N 23 40.7	54.5	Canopus	263	52.4	S 52 42.7
01	166 26.8	191 36.4 S 10 26.6	217 18.8 S 18 58.3	217 01.2 S 19 33.4	128 31.9 N 13 55.4	185 17.2 S 9 42.8	37 03.6 N 23 32.3	54.5	Capella	280	22.8	N 46 01.5
02	181 29.2	206 36.5 S 10 25.7	232 18.1 S 18 57.6	232 01.7 S 19 32.9	143 33.9 N 13 55.5	200 19.4 S 9 42.7	51 34.6 N 23 23.7	54.5	Castor	245	57.7	N 31 50.2
03	196 31.7	221 36.6 S 10 24.8	247 17.4 S 18 56.9	247 02.2 S 19 32.4	158 36.0 N 13 55.7	215 21.6 S 9 42.6	66 05.6 N 23 15.1	54.5	Deneb	49	26.7	N 45 21.8
04	211 34.2	236 36.7 S 10 23.9	262 16.6 S 18 56.3	262 02.6 S 19 31.9	173 38.1 N 13 55.8	230 23.8 S 9 42.5	80 36.7 N 23 06.3	54.5	Denebola	182	25.4	N 14 26.1
05	226 36.6	251 36.8 S 10 23.0	277 15.9 S 18 55.6	277 03.1 S 19 31.5	188 40.2 N 13 55.9	245 26.0 S 9 42.4	95 07.9 N 22 57.5	54.5				
06	241 39.1	266 36.8 S 10 22.1	292 15.2 S 18 54.9	292 03.6 S 19 31.0	203 42.3 N 13 56.1	260 28.1 S 9 42.3	109 39.2 N 22 48.6	54.4	Diphda	348	48.3	S 17 51.4
07	256 41.6	281 36.9 S 10 21.2	307 14.4 S 18 54.3	307 04.1 S 19 30.5	218 44.4 N 13 56.2	275 30.3 S 9 42.2	124 10.6 N 22 39.5	54.4	Dubhe	193	41.2	N 61 37.1
08	271 44.0	296 37.0 S 10 20.3	322 13.7 S 18 53.6	322 04.6 S 19 30.1	233 46.5 N 13 56.3	290 32.5 S 9 42.1	138 42.0 N 22 30.4	54.4	Elnath	278	02.6	N 28 37.7
09	286 46.5	311 37.1 S 10 19.4	337 13.0 S 18 52.9	337 05.0 S 19 29.6	248 48.6 N 13 56.5	305 34.7 S 9 41.9	153 13.6 N 22 21.1	54.4	Etamin	90	42.8	N 51 28.8
10	301 49.0	326 37.1 S 10 18.5	352 12.3 S 18 52.2	352 05.5 S 19 29.1	263 50.6 N 13 56.6	320 36.8 S 9 41.8	167 45.2 N 22 11.8	54.4	Enif	33	39.8	N 9 59.0
11	316 51.4	341 37.2 S 10 17.5	7 11.5 S 18 51.5	7 06.0 S 19 28.6	278 52.7 N 13 56.7	335 39.0 S 9 41.7	182 16.8 N 22 02.4	54.4				
12	331 53.9	356 37.3 S 10 16.6	22 10.8 S 18 50.9	22 06.5 S 19 28.2	293 54.8 N 13 56.8	350 41.2 S 9 41.6	196 48.6 N 21 52.9	54.4	Fomalhaut	15	15.7	S 29 29.8
13	346 56.4	11 37.4 S 10 15.7	37 10.1 S 18 50.2	37 07.0 S 19 27.7	308 56.9 N 13 57.0	5 43.4 S 9 41.5	211 20.4 N 21 43.3	54.4	Gacrux	171	52.1	S 57 14.8
14	1 58.8	26 37.4 S 10 14.8	52 09.4 S 18 49.5	52 07.4 S 19 27.2	323 59.0 N 13 57.1	20 45.6 S 9 41.4	225 52.4 N 21 33.6	54.4	Gienah	175	44.1	S 17 40.6
15	17 01.3	41 37.5 S 10 13.9	67 08.6 S 18 48.8	67 07.9 S 19 26.8	339 01.1 N 13 57.2	35 47.7 S 9 41.3	240 24.4 N 21 23.8	54.3	Hadar	148	36.8	S 60 29.1
16	32 03.7	56 37.6 S 10 13.0	82 07.9 S 18 48.1	82 08.4 S 19 26.3	354 03.2 N 13 57.4	50 49.9 S 9 41.1	254 56.4 N 21 13.9	54.3	Hamal	327	52.2	N 23 34.6
17	47 06.2	71 37.7 S 10 12.1	97 07.2 S 18 47.5	97 08.9 S 19 25.8	9 05.2 N 13 57.5	65 52.1 S 9 41.0	269 28.6 N 21 03.9	54.3				
18	62 08.7	86 37.8 S 10 11.2	112 06.5 S 18 46.8	112 09.4 S 19 25.3	24 07.3 N 13 57.6	80 54.3 S 9 40.9	284 00.8 N 20 53.9	54.3	Kaus aust.	83	33.7	S 34 22.4
19	77 11.1	101 37.8 S 10 10.3	127 05.7 S 18 46.1	127 09.8 S 19 24.8	39 09.4 N 13 57.8	95 56.4 S 9 40.8	298 33.1 N 20 43.8	54.3	Kochab	137	19.4	N 74 03.0
20	92 13.6	116 37.9 S 10 09.3	142 05.0 S 18 45.4	142 10.3 S 19 24.4	54 11.5 N 13 57.9	110 58.6 S 9 40.7	313 05.5 N 20 33.5	54.3	Markab	13	30.9	N 15 20.0
21	107 16.1	131 38.0 S 10 08.4	157 04.3 S 18 44.7	157 10.8 S 19 23.9	69 13.6 N 13 58.0	126 00.8 S 9 40.6	327 38.0 N 20 23.2	54.3	Menkar	314	07.0	N 4 11.0
22	122 18.5	146 38.1 S 10 07.5	172 03.6 S 18 44.0	172 11.3 S 19 23.4	84 15.7 N 13 58.2	141 03.0 S 9 40.5	342 10.5 N 20 12.9	54.3	Menkent	147	58.3	S 36 29.2
23	137 21.0	161 38.2 S 10 06.6	187 02.8 S 18 43.3	187 11.8 S 19 22.9	99 17.7 N 13 58.3	156 05.2 S 9 40.4	356 43.1 N 20 02.4	54.3				
23 00	152 23.5	176 38.3 S 10 05.7	202 02.1 S 18 42.6	202 12.3 S 19 22.5	114 19.8 N 13 58.4	171 07.3 S 9 40.2	11 15.8 N 19 51.8	54.3	Miaplacidus	221	37.6	S 69 49.0
01	167 25.9	191 38.3 S 10 04.8	217 01.4 S 18 41.9	217 12.7 S 19 22.0	129 21.9 N 13 58.6	186 09.5 S 9 40.1	25 48.6 N 19 41.2	54.2	Mirfak	308	29.4	N 49 57.0
02	182 28.4	206 38.4 S 10 03.9	232 00.7 S 18 41.3	232 13.2 S 19 21.5	144 24.0 N 13 58.7	201 11.7 S 9 40.0	40 21.4 N 19 30.5	54.2	Mizar	158	46.1	N 54 47.7
03	197 30.9	221 38.5 S 10 03.0	247 00.0 S 18 40.6	247 13.7 S 19 21.0	159 26.1 N 13 58.8	216 13.9 S 9 39.9	54 54.4 N 19 19.7	54.2	Nunki	75	48.9	S 26 16.0
04	212 33.3	236 38.6 S 10 02.0	261 59.2 S 18 39.9	262 14.2 S 19 20.6	174 28.2 N 13 59.0	231 16.0 S 9 39.8	69 27.3 N 19 08.9	54.2	Peacock	53	07.4	S 56 39.4
05	227 35.8	251 38.7 S 10 01.1	276 58.5 S 18 39.2	277 14.7 S 19 20.1	189 30.2 N 13 59.1	246 18.2 S 9 39.7	84 00.4 N 18 57.9	54.2	Polaris	314	30.3	N 89 22.3
06	242 38.2	266 38.7 S 10 00.2	291 57.8 S 18 38.5	292 15.2 S 19 19.6	204 32.3 N 13 59.2	261 20.4 S 9 39.6	98 33.5 N 18 46.9	54.2	Pollux	243	17.9	N 27 58.1
07	257 40.7	281 38.8 S 9 59.3	306 57.1 S 18 37.8	307 15.6 S 19 19.1	219 34.4 N 13 59.3	276 22.6 S 9 39.4	113 06.7 N 18 35.8	54.2	Procyon	244	51.3	N 5 09.7
08	272 43.2	296 38.9 S 9 58.4	321 56.4 S 18 37.1	322 16.1 S 19 18.6	234 36.5 N 13 59.5	291 24.8 S 9 39.3	127 40.0 N 18 24.7	54.2	Rasalhague	95		

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	FEBBRAIO	22
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
24 00	153 22.6	176 40.3	S 9 43.7	201 44.9	S 18 25.8	202 23.9	S 19 10.9	115 09.8	N 14 01.6	171 59.6	S 9 37.5	0 41.6	N 15 17.1	54.1	NOME	360	- AR	Dec.
01	168 25.1	191 40.4	S 9 42.8	216 44.2	S 18 25.1	217 24.4	S 19 10.4	130 11.9	N 14 01.7	187 01.8	S 9 37.4	15 16.0	N 15 04.9	54.1	Acamar	315 12.4	S 40 12.7	
02	183 27.5	206 40.5	S 9 41.9	231 43.5	S 18 24.4	232 24.9	S 19 09.9	145 13.9	N 14 01.9	202 03.9	S 9 37.3	29 50.5	N 14 52.6	54.1	Achernar	335 21.0	S 57 07.1	
03	198 30.0	221 40.6	S 9 41.0	246 42.8	S 18 23.6	247 25.3	S 19 09.4	160 16.0	N 14 02.0	217 06.1	S 9 37.2	44 25.0	N 14 40.2	54.1	AcruX	173 00.4	S 63 13.8	
04	213 32.5	236 40.6	S 9 40.0	261 42.1	S 18 22.9	262 25.8	S 19 08.9	175 18.1	N 14 02.1	232 08.3	S 9 37.1	58 59.5	N 14 27.8	54.1	Adhara	255 06.2	S 29 00.4	
05	228 34.9	251 40.7	S 9 39.1	276 41.4	S 18 22.2	277 26.3	S 19 08.5	190 20.2	N 14 02.3	247 10.5	S 9 37.0	73 34.2	N 14 15.4	54.1	Aldebaran	290 40.4	N 16 33.5	
06	243 37.4	266 40.8	S 9 38.2	291 40.7	S 18 21.5	292 26.8	S 19 08.0	205 22.2	N 14 02.4	262 12.7	S 9 36.8	88 08.8	N 14 02.9	54.0				
07	258 39.8	281 40.9	S 9 37.3	306 40.0	S 18 20.8	307 27.3	S 19 07.5	220 24.3	N 14 02.5	277 14.8	S 9 36.7	102 43.6	N 13 50.3	54.0	Alioth	166 13.1	N 55 49.5	
08	273 42.3	296 41.0	S 9 36.4	321 39.3	S 18 20.0	322 27.8	S 19 07.0	235 26.4	N 14 02.7	292 17.0	S 9 36.6	117 18.4	N 13 37.7	54.0	Alkaid	152 52.3	N 49 11.3	
09	288 44.8	311 41.1	S 9 35.4	336 38.6	S 18 19.3	337 28.3	S 19 06.5	250 28.5	N 14 02.8	307 19.2	S 9 36.5	131 53.2	N 13 25.0	54.0	Alnair	27 34.2	S 46 50.8	
10	303 47.2	326 41.2	S 9 34.5	351 37.9	S 18 18.6	352 28.8	S 19 06.0	265 30.5	N 14 02.9	322 21.4	S 9 36.4	146 28.1	N 13 12.3	54.0	Alnilam	275 38.3	S 1 11.3	
11	318 49.7	341 41.3	S 9 33.6	6 37.2	S 18 17.9	7 29.2	S 19 05.5	280 32.6	N 14 03.1	337 23.5	S 9 36.3	161 03.1	N 12 59.6	54.0	Alphard	217 48.1	S 8 45.9	
12	333 52.2	356 41.4	S 9 32.7	21 36.4	S 18 17.2	22 29.7	S 19 05.0	295 34.6	N 14 03.2	352 25.7	S 9 36.2	175 38.1	N 12 46.8	54.0				
13	348 54.6	11 41.5	S 9 31.7	36 35.7	S 18 16.4	37 30.2	S 19 04.5	310 36.8	N 14 03.3	7 27.9	S 9 36.0	190 13.1	N 12 33.9	54.0	Alphecca	126 04.3	N 26 37.7	
14	3 57.1	26 41.6	S 9 30.8	51 35.0	S 18 15.7	52 30.7	S 19 04.1	325 38.8	N 14 03.5	22 30.1	S 9 35.9	204 48.2	N 12 21.0	54.0	Alpheratz	357 35.8	N 29 13.4	
15	18 59.6	41 41.6	S 9 29.9	66 34.3	S 18 15.0	67 31.2	S 19 03.6	340 40.9	N 14 03.6	37 32.2	S 9 35.8	219 23.4	N 12 08.1	54.0	Altair	62 00.9	N 8 55.7	
16	34 02.0	56 41.7	S 9 29.0	81 33.6	S 18 14.3	82 31.7	S 19 03.1	355 43.0	N 14 03.7	52 34.4	S 9 35.7	233 58.6	N 11 55.1	54.0	Ankaa	353 08.2	S 42 10.7	
17	49 04.5	71 41.8	S 9 28.1	96 32.9	S 18 13.5	97 32.2	S 19 02.6	10 45.1	N 14 03.9	67 36.6	S 9 35.6	248 33.8	N 11 42.1	54.0	Antares	112 16.8	S 26 29.1	
18	64 06.9	86 41.9	S 9 27.1	111 32.2	S 18 12.8	112 32.7	S 19 02.1	25 47.1	N 14 04.0	82 38.8	S 9 35.5	263 09.1	N 11 29.1	54.0				
19	79 09.4	101 42.0	S 9 26.2	126 31.5	S 18 12.1	127 33.1	S 19 01.6	40 49.2	N 14 04.1	97 41.0	S 9 35.4	277 44.4	N 11 15.9	54.0	Arcturus	145 48.4	N 19 03.2	
20	94 11.9	116 42.1	S 9 25.3	141 30.8	S 18 11.3	142 33.6	S 19 01.1	55 51.3	N 14 04.3	112 43.1	S 9 35.3	292 19.8	N 11 02.8	54.0	Atria	107 11.8	S 69 04.0	
21	109 14.3	131 42.2	S 9 24.4	156 30.1	S 18 10.6	157 34.1	S 19 00.6	70 53.4	N 14 04.4	127 45.3	S 9 35.1	306 55.3	N 10 49.6	54.0	Avior	234 14.5	S 59 35.3	
22	124 16.8	146 42.3	S 9 23.4	171 29.4	S 18 09.9	172 34.6	S 19 00.1	85 55.4	N 14 04.5	142 47.5	S 9 35.0	321 30.7	N 10 36.4	54.0	Bellatrix	278 23.5	N 6 22.2	
23	139 19.3	161 42.4	S 9 22.5	186 28.7	S 18 09.1	187 35.1	S 18 59.6	100 57.5	N 14 04.7	157 49.7	S 9 34.9	336 06.2	N 10 23.1	54.0	Betelgeuse	270 52.7	N 7 24.6	
25 00	154 21.7	176 42.5	S 9 21.6	201 28.0	S 18 08.4	202 35.6	S 18 59.1	115 59.6	N 14 04.8	172 51.8	S 9 34.8	350 41.8	N 10 09.9	54.0	Canopus	263 52.4	S 52 42.7	
01	169 24.2	191 42.6	S 9 20.7	216 27.3	S 18 07.7	217 36.1	S 18 58.6	131 01.7	N 14 04.9	187 54.0	S 9 34.7	5 17.4	N 9 56.5	54.0	Capella	280 22.8	N 46 01.5	
02	184 26.7	206 42.7	S 9 19.7	231 26.6	S 18 06.9	232 36.6	S 18 58.1	146 03.7	N 14 05.1	202 56.2	S 9 34.6	19 53.0	N 9 43.2	54.0	Castor	245 57.7	N 31 50.2	
03	199 29.1	221 42.8	S 9 18.8	246 25.9	S 18 06.2	247 37.1	S 18 57.6	161 05.8	N 14 05.2	217 58.4	S 9 34.5	34 28.7	N 9 29.8	54.0	Deneb	49 26.7	N 45 21.8	
04	214 31.6	236 42.9	S 9 17.9	261 25.2	S 18 05.4	262 37.6	S 18 57.1	176 07.9	N 14 05.4	233 00.6	S 9 34.3	49 04.4	N 9 16.3	54.0	Denebola	182 25.4	N 14 26.1	
05	229 34.1	251 43.0	S 9 17.0	276 24.5	S 18 04.7	277 38.0	S 18 56.6	191 10.0	N 14 05.5	248 02.7	S 9 34.2	63 40.1	N 9 02.9	54.0				
06	244 36.5	266 43.1	S 9 16.0	291 23.8	S 18 04.0	292 38.5	S 18 56.2	206 12.0	N 14 05.6	263 04.9	S 9 34.1	78 15.9	N 8 49.4	54.0	Diphda	348 48.3	S 17 51.4	
07	259 39.0	281 43.1	S 9 15.1	306 23.1	S 18 03.2	307 39.0	S 18 55.7	221 14.1	N 14 05.8	278 07.1	S 9 34.0	92 51.7	N 8 35.9	54.0	Dubhe	193 41.2	N 61 37.1	
08	274 41.4	296 43.2	S 9 14.2	321 22.4	S 18 02.5	322 39.5	S 18 55.2	236 16.2	N 14 05.9	293 09.3	S 9 33.9	107 27.6	N 8 22.3	54.0	Elnath	278 02.6	N 28 37.7	
09	289 43.9	311 43.3	S 9 13.3	336 21.7	S 18 01.7	337 40.0	S 18 54.7	251 18.2	N 14 06.0	308 11.4	S 9 33.8	122 03.5	N 8 08.7	54.0	Etamin	90 42.8	N 51 28.8	
10	304 46.4	326 43.4	S 9 12.3	351 21.0	S 18 01.0	352 40.5	S 18 54.2	266 20.3	N 14 06.2	323 13.6	S 9 33.7	136 39.4	N 7 55.1	54.0	Enif	33 39.8	N 9 59.0	
11	319 48.8	341 43.5	S 9 11.4	6 20.3	S 18 00.3	7 41.0	S 18 53.7	281 22.4	N 14 06.3	338 15.8	S 9 33.6	151 15.3	N 7 41.5	54.0				
12	334 51.3	356 43.6	S 9 10.5	21 19.7	S 17 59.5	22 41.5	S 18 53.2	296 24.5	N 14 06.4	353 18.0	S 9 33.4	165 51.3	N 7 27.8	54.0	Fomalhaut	15 15.6	S 29 29.8	
13	349 53.8	11 43.7	S 9 09.5	36 19.0	S 17 58.8	37 42.0	S 18 52.7	311 26.5	N 14 06.6	8 20.1	S 9 33.3	180 27.3	N 7 14.1	54.0	Gacrux	171 52.0	S 57 14.8	
14	4 56.2	26 43.3	S 9 08.6	51 18.3	S 17 58.0	52 42.5	S 18 52.2	326 28.6	N 14 06.7	23 22.3	S 9 33.2	195 03.3	N 7 00.4	54.0	Gienah	175 44.1	S 17 40.6	
15	19 58.7	41 43.9	S 9 07.7	66 17.6	S 17 57.3	67 43.0	S 18 51.7	341 30.7	N 14 06.8	38 24.5	S 9 33.1	209 39.4	N 6 46.7	54.0	Hadar	148 36.7	S 60 29.2	
16	35 01.2	56 44.0	S 9 06.8	81 16.9	S 17 56.5	82 43.4	S 18 51.2	356 32.7	N 14 07.0	53 26.7	S 9 33.0	224 15.5	N 6 32.9	54.0	Hamal	327 52.2	N 23 34.6	
17	50 03.6	71 44.1	S 9 05.8	96 16.2	S 17 55.8	97 43.9	S 18 50.7	11 34.8	N 14 07.1	68 28.9	S 9 32.9	238 51.6	N 6 19.1	54.0				
18	65 06.1	86 44.2	S 9 04.9	111 15.5	S 17 55.0	112 44.4	S 18 50.2	26 36.9	N 14 07.2	83 31.0	S 9 32.8	253 27.7	N 6 05.3	54.0	Kaus aust.	83 33.7	S 34 22.4	
19	80 08.6	101 44.3	S 9 04.0	126 14.8	S 17 54.3	127 44.9	S 18 49.7	41 38.9	N 14 07.4	98 33.2	S 9 32.6	268 03.8	N 5 51.5	54.0	Kochab	137 19.3	N 74 03.0	
20	95 11.0	116 44.4	S 9 03.0	141 14.1	S 17 53.5	142 45.4	S 18 49.2	56 41.0	N 14 07.5	113 35.4	S 9 32.5	282 40.0	N 5 37.6	54.0	Markab	13 30.9	N 15 20.0	
21	110 13.5	131 44.5	S 9 02.1	156 13.4	S 17 52.8	157 45.9	S 18 48.7	71 43.1	N 14 07.6	128 37.6	S 9 32.4	297 16.2	N 5 23.7	54.0	Menkar	314 07.0	N 4 11.0	
22	125 15.9	146 44.6	S 9 01.2	171 12.7	S 17 52.0	172 46.4	S 18 48.2	86 45.1	N 14 07.8	143 39.7	S 9 32.3	311 52.4	N 5 09.9	54.0	Menkent	147 58.3	S 36 29.2	
23	140 18.4	161 44.7	S 9 00.3	186 12.0	S 17 51.2	187 46.9	S 18 47.7	101 47.2	N 14 07.9	158 41.9	S 9 32.2	326 28.7	N 4 56.0	54.0				
26 00	155 20.9	176 44.8	S 8 59.3	201 11.3	S 17 50.5	202 47.4	S 18 47.2	116 49.3	N 14 08.1	173 44.1	S 9 32.1	341 04.9	N 4 42.0	54.0	Miaplacidus	221 37.6	S 69 49.0	
01	170 23.3	191 44.9	S 8 58.4	216 10.7	S 17 49.7	217 47.9	S 18 46.7	131 51.4	N 14 08.2	188 46.3	S 9 32.0	355 41.2	N 4 28.1	54.0	Mirfak	308 29.4	N	

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	FEBBRAIO	25
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
27 00	156 20.0	176 47.3	S 8 36.9	200 54.9	S 17 32.1	202 59.3	S 18 35.0	117 38.9	N 14 11.3	174 36.3	S 9 29.4	331 38.1	S 0 55.4	54.1	NOME	360	- AR	Dec.
01	171 22.5	191 47.4	S 8 36.0	215 54.3	S 17 31.3	217 59.8	S 18 34.5	132 40.9	N 14 11.5	189 38.5	S 9 29.2	346 14.5	S 1 09.5	54.1	Acamar	315 12.4	S 40 12.7	
02	186 24.9	206 47.5	S 8 35.0	230 53.6	S 17 30.5	233 00.3	S 18 34.0	147 43.0	N 14 11.6	204 40.7	S 9 29.1	0 50.9	S 1 23.7	54.1	Achernar	335 21.0	S 57 07.1	
03	201 27.4	221 47.6	S 8 34.1	245 52.9	S 17 29.7	248 00.8	S 18 33.5	162 45.0	N 14 11.7	219 42.9	S 9 29.0	15 27.3	S 1 37.8	54.1	Acruis	173 00.4	S 63 13.9	
04	216 29.9	236 47.7	S 8 33.2	260 52.2	S 17 29.0	263 01.3	S 18 32.9	177 47.1	N 14 11.9	234 45.0	S 9 28.9	30 03.6	S 1 51.9	54.1	Adhara	255 06.2	S 29 00.5	
05	231 32.3	251 47.8	S 8 32.2	275 51.6	S 17 28.2	278 01.8	S 18 32.4	192 49.2	N 14 12.0	249 47.2	S 9 28.8	44 40.0	S 2 06.0	54.1	Aldebaran	290 40.4	N 16 33.5	
06	246 34.8	266 47.9	S 8 31.3	290 50.9	S 17 27.4	293 02.3	S 18 31.9	207 51.2	N 14 12.1	264 49.4	S 9 28.7	59 16.3	S 2 20.1	54.1				
07	261 37.3	281 48.0	S 8 30.4	305 50.2	S 17 26.6	308 02.8	S 18 31.4	222 53.3	N 14 12.3	279 51.6	S 9 28.6	73 52.7	S 2 34.2	54.1	Alioth	166 13.1	N 55 49.5	
08	276 39.7	296 48.2	S 8 29.4	320 49.5	S 17 25.8	323 03.3	S 18 30.9	237 55.3	N 14 12.4	294 53.8	S 9 28.4	88 29.0	S 2 48.3	54.1	Alkaid	152 52.3	N 49 11.3	
09	291 42.2	311 48.3	S 8 28.5	335 48.9	S 17 25.0	338 03.8	S 18 30.4	252 57.4	N 14 12.6	309 55.9	S 9 28.3	103 05.3	S 3 02.4	54.1	Alnair	27 34.2	S 46 50.8	
10	306 44.6	326 48.4	S 8 27.5	350 48.2	S 17 24.3	353 04.3	S 18 29.9	267 59.5	N 14 12.7	324 58.1	S 9 28.2	117 41.6	S 3 16.4	54.1	Alnilam	275 38.3	S 1 11.3	
11	321 47.1	341 48.5	S 8 26.6	5 47.5	S 17 23.5	8 04.8	S 18 29.3	283 01.5	N 14 12.8	340 00.3	S 9 28.1	132 17.9	S 3 30.5	54.1	Alphard	217 48.1	S 8 45.9	
12	336 49.6	356 48.6	S 8 25.7	20 46.8	S 17 22.7	23 05.3	S 18 28.8	298 03.6	N 14 13.0	355 02.0	S 9 28.0	146 54.1	S 3 44.6	54.1				
13	351 52.0	11 48.7	S 8 24.7	35 46.2	S 17 21.9	38 05.8	S 18 28.3	313 05.7	N 14 13.1	10 04.6	S 9 27.9	161 30.4	S 3 58.6	54.1	Alphecca	126 04.3	N 26 37.7	
14	6 54.5	26 48.8	S 8 23.8	50 45.5	S 17 21.1	53 06.3	S 18 27.8	328 07.7	N 14 13.2	25 06.8	S 9 27.8	176 06.6	S 4 12.6	54.1	Alpheratz	357 35.8	N 29 13.4	
15	21 57.0	41 48.9	S 8 22.8	65 44.8	S 17 20.3	68 06.8	S 18 27.3	343 09.8	N 14 13.4	40 09.0	S 9 27.7	190 42.8	S 4 26.7	54.2	Altair	602 00.9	N 8 55.7	
16	36 59.4	56 49.0	S 8 21.9	80 44.2	S 17 19.5	83 07.3	S 18 26.8	358 11.8	N 14 13.5	55 11.2	S 9 27.5	205 18.9	S 4 40.7	54.2	Ankaa	353 08.2	S 42 10.7	
17	52 01.9	71 49.1	S 8 21.0	95 43.5	S 17 18.7	98 07.8	S 18 26.2	13 13.9	N 14 13.7	70 13.3	S 9 27.4	219 55.1	S 4 54.7	54.2	Antares	112 16.7	S 26 29.1	
18	67 04.4	86 49.2	S 8 20.0	110 42.8	S 17 17.9	113 08.3	S 18 25.7	28 16.0	N 14 13.8	85 15.5	S 9 27.3	234 31.2	S 5 08.7	54.2				
19	82 06.8	101 49.4	S 8 19.1	125 42.1	S 17 17.1	128 08.8	S 18 25.2	43 18.0	N 14 13.9	100 17.7	S 9 27.2	249 07.3	S 5 22.6	54.2	Arcturus	145 48.4	N 19 03.2	
20	97 09.3	116 49.5	S 8 18.1	140 41.5	S 17 16.3	143 09.3	S 18 24.7	58 20.1	N 14 14.1	115 19.9	S 9 27.1	263 43.4	S 5 36.6	54.2	Atria	107 11.7	S 69 04.0	
21	112 11.8	131 49.6	S 8 17.2	155 40.8	S 17 15.6	158 09.8	S 18 24.2	73 22.1	N 14 14.2	130 22.1	S 9 27.0	278 19.4	S 5 50.5	54.2	Avior	234 14.5	S 59 35.3	
22	127 14.2	146 49.7	S 8 16.3	170 40.1	S 17 14.8	173 10.3	S 18 23.7	88 24.2	N 14 14.3	145 24.2	S 9 26.9	292 55.4	S 6 04.4	54.2	Bellatrix	278 23.6	N 6 22.2	
23	142 16.7	161 49.8	S 8 15.3	185 39.5	S 17 14.0	188 10.8	S 18 23.1	103 26.2	N 14 14.5	160 26.4	S 9 26.7	307 31.4	S 6 18.3	54.2	Betelgeuse	270 52.7	N 7 24.6	
28 00	157 19.1	176 49.9	S 8 14.4	200 38.8	S 17 13.2	203 11.3	S 18 22.6	118 28.3	N 14 14.6	175 28.6	S 9 26.6	322 07.4	S 6 32.2	54.2	Canopus	263 52.4	S 52 42.7	
01	172 21.6	191 50.0	S 8 13.4	215 38.1	S 17 12.4	218 11.8	S 18 22.1	133 30.4	N 14 14.8	190 30.8	S 9 26.5	336 43.3	S 6 46.1	54.2	Capella	280 22.8	N 46 01.5	
02	187 24.1	206 50.1	S 8 12.5	230 37.5	S 17 11.6	233 12.3	S 18 21.6	148 32.4	N 14 14.9	205 32.9	S 9 26.4	351 19.2	S 6 59.9	54.3	Castor	245 57.7	N 31 50.2	
03	202 26.5	221 50.2	S 8 11.6	245 36.8	S 17 10.8	248 12.8	S 18 21.1	163 34.5	N 14 15.0	220 35.1	S 9 26.3	5 55.0	S 7 13.8	54.3	Deneb	49 26.7	N 45 21.7	
04	217 29.0	236 50.4	S 8 10.6	260 36.1	S 17 10.0	263 13.3	S 18 20.5	178 36.5	N 14 15.2	235 37.3	S 9 26.2	20 30.9	S 7 27.6	54.3	Denebola	182 25.4	N 14 26.1	
05	232 31.5	251 50.5	S 8 09.7	275 35.5	S 17 09.2	278 13.8	S 18 20.0	193 38.6	N 14 15.3	250 39.5	S 9 26.1	35 06.7	S 7 41.4	54.3				
06	247 33.9	266 50.6	S 8 08.7	290 34.8	S 17 08.4	293 14.3	S 18 19.5	208 40.6	N 14 15.4	265 41.6	S 9 26.0	49 42.4	S 7 55.1	54.3	Diphda	348 48.3	S 17 51.4	
07	262 36.4	281 50.7	S 8 07.8	305 34.1	S 17 07.6	308 14.8	S 18 19.0	223 42.7	N 14 15.6	280 43.8	S 9 25.8	64 18.1	S 8 08.9	54.3	Dubhe	193 41.2	N 61 37.1	
08	277 38.9	296 50.8	S 8 06.8	320 33.5	S 17 06.7	323 15.3	S 18 18.5	238 44.8	N 14 15.7	295 46.0	S 9 25.7	78 53.8	S 8 22.6	54.3	Elnath	278 02.7	N 28 37.7	
09	292 41.3	311 50.9	S 8 05.9	335 32.8	S 17 05.9	338 15.8	S 18 17.9	253 46.8	N 14 15.9	310 48.2	S 9 25.6	93 29.4	S 8 36.3	54.3	Etamin	90 42.7	N 51 28.8	
10	307 43.8	326 51.0	S 8 05.0	350 32.2	S 17 05.1	353 16.3	S 18 17.4	268 48.9	N 14 16.0	325 50.4	S 9 25.5	108 05.0	S 8 49.9	54.3	Enif	33 39.8	N 9 59.0	
11	322 46.2	341 51.2	S 8 04.0	5 31.5	S 17 04.3	8 16.8	S 18 16.9	283 50.9	N 14 16.1	340 52.5	S 9 25.4	122 40.5	S 9 03.6	54.4				
12	337 48.7	356 51.3	S 8 03.1	20 30.8	S 17 03.5	23 17.3	S 18 16.4	298 53.0	N 14 16.3	355 54.7	S 9 25.3	137 16.0	S 9 17.2	54.4	Fomalhaut	15 15.6	S 29 29.8	
13	352 51.2	11 51.4	S 8 02.1	35 30.2	S 17 02.7	38 17.8	S 18 15.8	313 55.0	N 14 16.4	10 56.9	S 9 25.2	151 51.5	S 9 30.7	54.4	Gacrux	171 52.0	S 57 14.8	
14	7 53.6	26 51.5	S 8 01.2	50 29.5	S 17 01.9	53 18.3	S 18 15.3	328 57.1	N 14 16.5	25 59.1	S 9 25.0	166 26.9	S 9 44.3	54.4	Gienah	175 44.0	S 17 40.6	
15	22 56.1	41 51.6	S 8 00.2	65 28.8	S 17 01.1	68 18.8	S 18 14.8	343 59.1	N 14 16.7	41 01.2	S 9 24.9	181 02.3	S 9 57.8	54.4	Hadar	148 36.7	S 60 29.2	
16	37 58.6	56 51.7	S 7 59.3	80 28.2	S 17 00.3	83 19.3	S 18 14.3	359 01.2	N 14 16.8	56 03.4	S 9 24.8	195 37.6	S 10 11.3	54.4	Hamal	327 52.2	N 23 34.6	
17	53 01.0	71 51.8	S 7 58.4	95 27.5	S 16 59.5	98 19.8	S 18 13.7	14 03.3	N 14 17.0	71 05.6	S 9 24.7	210 12.9	S 10 24.7	54.4				
18	68 03.5	86 52.0	S 7 57.4	110 26.9	S 16 58.7	113 20.3	S 18 13.2	29 05.3	N 14 17.1	86 07.8	S 9 24.6	224 48.1	S 10 38.2	54.5	Kaus aust.	83 33.7	S 34 22.4	
19	83 06.0	101 52.1	S 7 56.5	125 26.2	S 16 57.8	128 20.8	S 18 12.7	44 07.4	N 14 17.2	101 09.9	S 9 24.5	239 23.2	S 10 51.6	54.5	Kochab	137 19.3	N 74 03.0	
20	98 08.4	116 52.2	S 7 55.5	140 25.5	S 16 57.0	143 21.3	S 18 12.2	59 09.4	N 14 17.4	116 12.1	S 9 24.4	253 58.4	S 11 04.9	54.5	Markab	13 30.9	N 15 20.0	
21	113 10.9	131 52.3	S 7 54.6	155 24.9	S 16 56.2	158 21.8	S 18 11.6	74 11.5	N 14 17.5	131 14.3	S 9 24.2	268 33.4	S 11 18.2	54.5	Menkar	314 07.0	N 4 11.0	
22	128 13.4	146 52.4	S 7 53.6	170 24.2	S 16 55.4	173 22.3	S 18 11.1	89 13.5	N 14 17.7	146 16.5	S 9 24.1	283 08.4	S 11 31.5	54.5	Menkent	147 58.3	S 36 29.3	
23	143 15.8	161 52.5	S 7 52.7	185 23.6	S 16 54.6	188 22.8	S 18 10.6	104 15.6	N 14 17.8	161 18.7	S 9 24.0	297 43.4	S 11 44.8	54.5				
29 00	158 18.3	176 52.7	S 7 51.7	200 22.9	S 16 53.8	203 23.3	S 18 10.1	119 17.6	N 14 17.9	176 20.8	S 9 23.9	312 18.3	S 11 58.0	54.5	Miaplacidus	221 37.6	S 69 49.0	
01	173 20.7	191 52.8	S 7 50.8	215 22.3	S 16 52.9	218 23.8	S 18 09.5	134 19.7	N 14 18.1	191 23.0	S 9 23.8	326 53.1	S 12 11.1	54.6	Mirfak	308 29.4	N 49 57.0	

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	FEBBRAIO	28
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
01 00	159 17.4	176 55.5	S 7 29.0	200 07.3	S 16 33.9	203 35.5	S 17 57.3	120 06.8	N 14 21.3	177 13.1	S 9 21.2	301 56.1	S 17 01.3	55.0	NOME	360	- AR	Dec.
01 01	174 19.9	191 55.7	S 7 28.0	215 06.7	S 16 33.0	218 36.0	S 17 56.8	135 08.9	N 14 21.4	192 15.3	S 9 21.1	316 29.2	S 17 13.2	55.0	Acamar	315 12.4	S 40 12.7	
02 01	189 22.3	206 55.8	S 7 27.1	230 06.0	S 16 32.2	233 36.5	S 17 56.2	150 10.9	N 14 21.6	207 17.4	S 9 21.0	331 02.3	S 17 25.1	55.0	Achernar	335 21.1	S 57 07.1	
03 04	204 24.8	221 55.9	S 7 26.1	245 05.4	S 16 31.4	248 37.0	S 17 55.7	165 13.0	N 14 21.7	222 19.6	S 9 20.8	345 35.3	S 17 37.0	55.0	Acruar	173 00.4	S 63 13.9	
04 04	219 27.3	236 56.0	S 7 25.2	260 04.7	S 16 30.5	263 37.5	S 17 55.2	180 15.0	N 14 21.8	237 21.8	S 9 20.7	0 08.1	S 17 48.7	55.0	Adhara	255 06.2	S 29 00.5	
05 05	234 29.7	251 56.1	S 7 24.2	275 04.1	S 16 29.7	278 38.0	S 17 54.6	195 17.1	N 14 22.0	252 24.0	S 9 20.6	14 41.0	S 18 00.5	55.1	Aldebaran	290 40.4	N 16 33.5	
06 06	249 32.2	266 56.3	S 7 23.3	290 03.4	S 16 28.8	293 38.5	S 17 54.1	210 19.1	N 14 22.1	267 26.1	S 9 20.5	29 13.7	S 18 12.1	55.1				
07 07	264 34.7	281 56.4	S 7 22.3	305 02.8	S 16 28.0	308 39.1	S 17 53.6	225 21.2	N 14 22.3	282 28.3	S 9 20.4	43 46.3	S 18 23.7	55.1	Alioth	166 13.1	N 55 49.5	
08 07	279 37.1	296 56.5	S 7 21.3	320 02.2	S 16 27.1	323 39.6	S 17 53.0	240 23.2	N 14 22.4	297 30.5	S 9 20.3	58 18.8	S 18 35.2	55.1	Alkaid	152 52.2	N 49 11.3	
09 09	294 39.6	311 56.6	S 7 20.4	335 01.5	S 16 26.3	338 40.1	S 17 52.5	255 25.3	N 14 22.5	312 32.7	S 9 20.2	72 51.3	S 18 46.6	55.2	Alnair	27 34.2	S 46 50.7	
10 10	309 42.1	326 56.8	S 7 19.4	350 00.9	S 16 25.4	353 40.6	S 17 51.9	270 27.3	N 14 22.7	327 34.8	S 9 20.0	87 23.7	S 18 58.0	55.2	Alnilam	275 38.4	S 1 11.3	
11 11	324 44.5	341 56.9	S 7 18.5	5 00.2	S 16 24.6	8 41.1	S 17 51.4	285 29.4	N 14 22.8	342 37.0	S 9 19.9	101 55.9	S 19 09.2	55.2	Alphard	217 48.2	S 8 45.9	
12 12	339 47.0	356 57.0	S 7 17.5	19 59.6	S 16 23.8	23 41.6	S 17 50.9	300 31.4	N 14 23.0	357 39.2	S 9 19.8	116 28.1	S 19 20.5	55.2				
13 13	354 49.5	11 57.1	S 7 16.6	34 59.0	S 16 22.9	38 42.1	S 17 50.3	315 33.5	N 14 23.1	12 41.4	S 9 19.7	131 00.2	S 19 31.6	55.3	Alphecca	126 04.3	N 26 37.7	
14 14	9 51.9	26 57.3	S 7 15.6	49 58.3	S 16 22.1	53 42.6	S 17 49.8	330 35.5	N 14 23.2	27 43.6	S 9 19.6	145 32.2	S 19 42.7	55.3	Alpheratz	357 35.9	N 29 13.4	
15 15	24 54.4	41 57.4	S 7 14.7	64 57.7	S 16 21.2	68 43.1	S 17 49.3	345 37.5	N 14 23.4	42 45.7	S 9 19.5	160 04.1	S 19 53.6	55.3	Altair	62 00.9	N 8 55.7	
16 16	39 56.8	56 57.5	S 7 13.7	79 57.0	S 16 20.4	83 43.6	S 17 48.7	0 39.6	N 14 23.5	57 47.9	S 9 19.4	174 35.9	S 20 04.6	55.3	Ankaa	353 08.2	S 42 10.7	
17 17	54 59.3	71 57.6	S 7 12.8	94 56.4	S 16 19.5	98 44.2	S 17 48.2	15 41.6	N 14 23.7	72 50.1	S 9 19.3	189 07.6	S 20 15.4	55.3	Antares	112 16.7	S 26 29.1	
18 18	70 01.8	86 57.8	S 7 11.8	109 55.8	S 16 18.6	113 44.7	S 17 47.6	30 43.7	N 14 23.8	87 52.3	S 9 19.1	203 39.2	S 20 26.1	55.4				
19 19	85 04.2	101 57.9	S 7 10.9	124 55.1	S 16 17.8	128 45.2	S 17 47.1	45 45.7	N 14 23.9	102 54.4	S 9 19.0	218 10.7	S 20 36.8	55.4	Arcturus	145 48.4	N 19 03.2	
20 20	100 06.7	116 58.0	S 7 09.9	139 54.5	S 16 16.9	143 45.7	S 17 46.6	60 47.8	N 14 24.1	117 56.6	S 9 18.9	232 42.2	S 20 47.4	55.4	Atria	107 11.7	S 69 04.0	
21 21	115 09.2	131 58.1	S 7 09.0	154 53.9	S 16 16.1	158 46.2	S 17 46.0	75 49.8	N 14 24.2	132 58.8	S 9 18.8	247 13.5	S 20 57.9	55.4	Avior	234 14.5	S 59 35.3	
22 22	130 11.6	146 58.3	S 7 08.0	169 53.2	S 16 15.2	173 46.7	S 17 45.5	90 51.9	N 14 24.4	148 01.0	S 9 18.7	261 44.7	S 21 08.3	55.5	Bellatrix	278 23.6	N 6 22.2	
23 23	145 14.1	161 58.4	S 7 07.0	184 52.6	S 16 14.4	188 47.2	S 17 44.9	105 53.9	N 14 24.5	163 03.1	S 9 18.6	276 15.8	S 21 18.6	55.5	Betelgeuse	270 52.7	N 7 24.6	
02 00	160 16.6	176 58.5	S 7 06.1	199 52.0	S 16 13.5	203 47.7	S 17 44.4	120 55.9	N 14 24.7	178 05.3	S 9 18.5	290 46.8	S 21 28.9	55.5	Canopus	263 52.5	S 52 42.7	
01 01	175 19.0	191 58.7	S 7 05.1	214 51.3	S 16 12.7	218 48.3	S 17 43.8	135 58.0	N 14 24.8	193 07.5	S 9 18.3	305 17.7	S 21 39.0	55.6	Capella	280 22.9	N 46 01.5	
02 02	190 21.5	206 58.8	S 7 04.2	229 50.7	S 16 11.8	233 48.8	S 17 43.3	151 00.0	N 14 24.9	208 09.7	S 9 18.2	319 48.6	S 21 49.1	55.6	Castor	245 57.7	N 31 50.2	
03 03	205 24.0	221 58.9	S 7 03.2	244 50.1	S 16 10.9	248 49.3	S 17 42.8	166 02.1	N 14 25.1	223 11.9	S 9 18.1	334 19.3	S 21 59.0	55.6	Deneb	49 26.7	N 45 21.7	
04 04	220 26.4	236 59.0	S 7 02.3	259 49.4	S 16 10.1	263 49.8	S 17 42.2	181 04.1	N 14 25.2	238 14.0	S 9 18.0	348 49.9	S 22 08.9	55.6	Denebola	182 25.4	N 14 26.1	
05 05	235 28.9	251 59.2	S 7 01.3	274 48.8	S 16 09.2	278 50.3	S 17 41.7	196 06.2	N 14 25.4	253 16.2	S 9 17.9	3 20.4	S 22 18.7	55.7				
06 06	250 31.3	266 59.3	S 7 00.3	289 48.2	S 16 08.4	293 50.8	S 17 41.1	211 08.2	N 14 25.5	268 18.4	S 9 17.8	17 50.8	S 22 28.4	55.7	Diphda	348 48.3	S 17 51.4	
07 07	265 33.8	281 59.4	S 6 59.4	304 47.5	S 16 07.5	308 51.3	S 17 40.6	226 10.2	N 14 25.6	283 20.6	S 9 17.7	32 21.1	S 22 38.0	55.7	Dubhe	193 41.2	N 61 37.2	
08 08	280 36.3	296 59.6	S 6 58.4	319 46.9	S 16 06.6	323 51.8	S 17 40.0	241 12.3	N 14 25.8	298 22.7	S 9 17.5	46 51.3	S 22 47.4	55.7	Elnath	278 02.7	N 28 37.7	
09 09	295 38.7	311 59.7	S 6 57.5	334 46.3	S 16 05.8	338 52.4	S 17 39.5	256 14.3	N 14 25.9	313 24.9	S 9 17.4	61 21.3	S 22 56.8	55.8	Etamin	90 42.7	N 51 28.8	
10 10	310 41.2	326 59.8	S 6 56.5	349 45.6	S 16 04.9	353 52.9	S 17 38.9	271 16.4	N 14 26.1	328 27.1	S 9 17.3	75 51.3	S 23 06.1	55.8	Enif	33 39.8	N 9 59.0	
11 11	325 43.7	341 59.9	S 6 55.6	4 45.0	S 16 04.0	8 53.4	S 17 38.4	286 18.4	N 14 26.2	343 29.3	S 9 17.2	90 21.2	S 23 15.3	55.8				
12 12	340 46.1	357 00.1	S 6 54.6	19 44.4	S 16 03.2	23 53.9	S 17 37.8	301 20.5	N 14 26.3	358 31.4	S 9 17.1	104 51.0	S 23 24.4	55.9	Fomalhaut	15 15.6	S 29 29.8	
13 13	355 48.6	12 00.2	S 6 53.6	34 43.7	S 16 02.3	38 54.4	S 17 37.3	316 22.5	N 14 26.5	13 33.6	S 9 17.0	119 20.6	S 23 33.4	55.9	Gacrux	171 52.0	S 57 14.8	
14 14	10 51.1	27 00.3	S 6 52.7	49 43.1	S 16 01.4	53 54.9	S 17 36.7	331 24.5	N 14 26.6	28 35.8	S 9 16.9	133 50.2	S 23 42.2	55.9	Gienah	175 44.0	S 17 40.6	
15 15	25 53.5	42 00.5	S 6 51.7	64 42.5	S 16 00.6	68 55.4	S 17 36.2	346 26.6	N 14 26.8	43 38.0	S 9 16.8	148 19.6	S 23 51.0	55.9	Hadar	148 36.7	S 60 29.2	
16 16	40 56.0	57 00.6	S 6 50.8	79 41.9	S 15 59.7	83 56.0	S 17 35.7	1 28.6	N 14 26.9	58 40.2	S 9 16.6	162 48.9	S 23 59.7	56.0	Hamal	327 52.2	N 23 34.6	
17 17	55 58.4	72 00.7	S 6 49.8	94 41.2	S 15 58.8	98 56.5	S 17 35.1	16 30.7	N 14 27.1	73 42.3	S 9 16.5	177 18.2	S 24 08.2	56.0				
18 18	71 00.9	87 00.9	S 6 48.9	109 40.6	S 15 58.0	113 57.0	S 17 34.6	31 32.7	N 14 27.2	88 44.5	S 9 16.4	191 47.3	S 24 16.6	56.0	Kaus aust.	83 33.6	S 34 22.4	
19 19	86 03.4	102 01.0	S 6 47.9	124 40.0	S 15 57.1	128 57.5	S 17 34.0	46 34.7	N 14 27.3	103 46.7	S 9 16.3	206 16.3	S 24 25.0	56.1	Kochab	137 19.2	N 74 03.0	
20 20	101 05.8	117 01.1	S 6 46.9	139 39.4	S 15 56.2	143 58.0	S 17 33.5	61 36.8	N 14 27.5	118 48.9	S 9 16.2	220 45.2	S 24 33.2	56.1	Markab	13 30.9	N 15 20.0	
21 21	116 08.3	132 01.2	S 6 46.0	154 38.7	S 15 55.3	158 58.5	S 17 32.9	76 38.8	N 14 27.6	133 51.0	S 9 16.1	235 14.0	S 24 41.3	56.1	Menkar	314 07.0	N 4 11.0	
22 22	131 10.8	147 01.4	S 6 45.0	169 38.1	S 15 54.5	173 59.1	S 17 32.4	91 40.9	N 14 27.8	148 53.2	S 9 16.0	249 42.7	S 24 49.2	56.2	Menkent	147 58.3	S 36 29.3	
23 23	146 13.2	162 01.5	S 6 44.1	184 37.5	S 15 53.6	188 59.6	S 17 31.8	106 42.9	N 14 27.9	163 55.4	S 9 15.8	264 11.2	S 24 57.1	56.2				
03 00	161 15.7	177 01.6	S 6 43.1	199 36.9	S 15 52.7	204 00.1	S 17 31.3	121 44.9	N 14 28.0	178 57.6	S 9 15.7	278 39.7	S 25 04.8	56.2	Miaplacidus	221 37.6	S 69 49.0	
01 01	176 18.2	192 01.8	S 6 42.1	214 3														

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	MARZO	01
04 00	162 14.8	177 04.9	S 6 20.0	199 22.0	S 15 31.5	204 12.5	S 17 18.0	122 33.8	N 14 31.5	179 49.8	S 9 13.0	265 31.0	S 27 31.1	57.0	NOME	360	- AR	Dec.
01	177 17.3	192 05.0	S 6 19.1	214 21.4	S 15 30.6	219 13.0	S 17 17.4	137 35.8	N 14 31.6	194 52.0	S 9 12.9	279 56.8	S 27 35.4	57.1	Acamar	315 12.5	S 40 12.7	
02	192 19.8	207 05.1	S 6 18.1	229 20.8	S 15 29.7	234 13.6	S 17 16.8	152 37.9	N 14 31.8	209 54.2	S 9 12.8	294 22.6	S 27 39.5	57.1	Achernar	335 21.1	S 57 07.1	
03	207 22.2	222 05.3	S 6 17.1	244 20.2	S 15 28.8	249 14.1	S 17 16.3	167 39.9	N 14 31.9	224 56.4	S 9 12.7	308 48.3	S 27 43.5	57.1	AcruX	173 00.3	S 63 13.9	
04	222 24.7	237 05.4	S 6 16.2	259 19.6	S 15 27.9	264 14.6	S 17 15.7	182 41.9	N 14 32.0	239 58.5	S 9 12.6	323 13.9	S 27 47.4	57.2	Adhara	255 06.2	S 29 00.5	
05	237 27.2	252 05.6	S 6 15.2	274 19.0	S 15 27.0	279 15.1	S 17 15.2	197 44.0	N 14 32.2	255 00.7	S 9 12.4	337 39.4	S 27 51.0	57.2	Aldebaran	290 40.4	N 16 33.5	
06	252 29.6	267 05.7	S 6 14.2	289 18.4	S 15 26.1	294 15.6	S 17 14.6	212 46.0	N 14 32.3	270 02.9	S 9 12.3	352 04.8	S 27 54.5	57.3				
07	267 32.1	282 05.8	S 6 13.3	304 17.8	S 15 25.2	309 16.2	S 17 14.0	227 48.0	N 14 32.5	285 05.1	S 9 12.2	6 30.1	S 27 57.9	57.3	Alioth	166 13.1	N 55 49.5	
08	282 34.6	297 06.0	S 6 12.3	319 17.2	S 15 24.3	324 16.7	S 17 13.5	242 50.1	N 14 32.6	300 07.2	S 9 12.1	20 55.3	S 28 01.1	57.3	Alkaid	152 52.2	N 49 11.3	
09	297 37.0	312 06.1	S 6 11.3	334 16.6	S 15 23.4	339 17.2	S 17 12.9	257 52.1	N 14 32.8	315 09.4	S 9 12.0	35 20.5	S 28 04.1	57.4	Alnair	27 34.2	S 46 50.7	
10	312 39.5	327 06.2	S 6 10.4	349 15.9	S 15 22.5	354 17.7	S 17 12.4	272 54.1	N 14 32.9	330 11.6	S 9 11.9	49 45.6	S 28 07.0	57.4	Alnilam	275 38.4	S 1 11.3	
11	327 41.9	342 06.4	S 6 09.4	4 15.3	S 15 21.6	9 18.3	S 17 11.8	287 56.2	N 14 33.0	345 13.8	S 9 11.8	64 10.5	S 28 09.7	57.4	Alphard	217 48.2	S 8 45.9	
12	342 44.4	357 06.5	S 6 08.5	19 14.7	S 15 20.7	24 18.8	S 17 11.2	302 58.2	N 14 33.2	0 15.9	S 9 11.6	78 35.4	S 28 12.2	57.5				
13	357 46.9	12 06.7	S 6 07.5	34 14.1	S 15 19.8	39 19.3	S 17 10.7	318 00.2	N 14 33.3	15 18.1	S 9 11.5	93 00.3	S 28 14.6	57.5	Alphecca	126 04.2	N 26 37.7	
14	12 49.3	27 06.8	S 6 06.5	49 13.5	S 15 18.9	54 19.8	S 17 10.1	333 02.3	N 14 33.5	30 20.3	S 9 11.4	107 25.0	S 28 16.8	57.6	Alpheratz	357 35.9	N 29 13.3	
15	27 51.8	42 06.9	S 6 05.6	64 12.9	S 15 17.9	69 20.3	S 17 09.6	348 04.3	N 14 33.6	45 22.5	S 9 11.3	121 49.7	S 28 18.8	57.6	Altair	62 00.9	N 8 55.7	
16	42 54.3	57 07.1	S 6 04.6	79 12.3	S 15 17.0	84 20.9	S 17 09.0	3 06.3	N 14 33.8	60 24.7	S 9 11.2	136 14.3	S 28 20.6	57.6	Ankaa	353 08.2	S 42 10.7	
17	57 56.7	72 07.2	S 6 03.6	94 11.7	S 15 16.1	99 21.4	S 17 08.4	18 08.3	N 14 33.9	75 26.8	S 9 11.1	150 38.8	S 28 22.3	57.7	Antares	112 16.7	S 26 29.1	
18	72 59.2	87 07.4	S 6 02.7	109 11.1	S 15 15.2	114 21.9	S 17 07.9	33 10.4	N 14 34.1	90 29.0	S 9 11.0	165 03.2	S 28 23.8	57.7				
19	88 01.7	102 07.5	S 6 01.7	124 10.5	S 15 14.3	129 22.4	S 17 07.3	48 12.4	N 14 34.2	105 31.2	S 9 10.9	179 27.6	S 28 25.1	57.7	Arcturus	145 48.4	N 19 03.2	
20	103 04.1	117 07.6	S 6 00.7	139 09.9	S 15 13.4	144 23.0	S 17 06.7	63 14.4	N 14 34.3	120 33.4	S 9 10.7	193 51.9	S 28 26.3	57.8	Atria	107 11.7	S 69 04.0	
21	118 06.6	132 07.8	S 5 59.8	154 09.3	S 15 12.5	159 23.5	S 17 06.2	78 16.5	N 14 34.5	135 35.5	S 9 10.6	208 16.2	S 28 27.3	57.8	Avior	234 14.5	S 59 35.4	
22	133 09.0	147 07.9	S 5 58.8	169 08.7	S 15 11.6	174 24.0	S 17 05.6	93 18.5	N 14 34.6	150 37.7	S 9 10.5	222 40.4	S 28 28.1	57.9	Bellatrix	278 23.6	N 6 22.2	
23	148 11.5	162 08.1	S 5 57.8	184 08.1	S 15 10.7	189 24.5	S 17 05.0	108 20.5	N 14 34.8	165 39.9	S 9 10.4	237 04.5	S 28 28.7	57.9	Betelgeuse	270 52.8	N 7 24.6	
05 00	163 14.0	177 08.2	S 5 56.9	199 07.5	S 15 09.8	204 25.1	S 17 04.5	123 22.6	N 14 34.9	180 42.1	S 9 10.3	251 28.5	S 28 29.1	57.9	Canopus	263 52.5	S 52 42.7	
01	178 16.4	192 08.3	S 5 55.9	214 06.9	S 15 08.8	219 25.6	S 17 03.9	138 24.6	N 14 35.1	195 44.3	S 9 10.2	265 52.5	S 28 29.4	58.0	Capella	280 22.9	N 46 01.5	
02	193 18.9	207 08.5	S 5 54.9	229 06.3	S 15 07.9	234 26.1	S 17 03.3	153 26.6	N 14 35.2	210 46.4	S 9 10.1	280 16.5	S 28 29.5	58.0	Castor	245 57.7	N 31 50.2	
03	208 21.4	222 08.6	S 5 54.0	244 05.7	S 15 07.0	249 26.6	S 17 02.8	168 28.6	N 14 35.3	225 48.6	S 9 09.9	294 40.4	S 28 29.4	58.1	Deneb	49 26.7	N 45 21.7	
04	223 23.8	237 08.8	S 5 53.0	259 05.1	S 15 06.1	264 27.2	S 17 02.2	183 30.7	N 14 35.5	240 50.8	S 9 09.8	309 04.2	S 28 29.1	58.1	Denebola	182 25.4	N 14 26.1	
05	238 26.3	252 08.9	S 5 52.0	274 04.5	S 15 05.2	279 27.7	S 17 01.6	198 32.7	N 14 35.6	255 53.0	S 9 09.7	323 28.0	S 28 28.7	58.1				
06	253 28.8	267 09.0	S 5 51.0	289 03.9	S 15 04.3	294 28.2	S 17 01.1	213 34.7	N 14 35.8	270 55.1	S 9 09.6	337 51.8	S 28 28.0	58.2	Diphda	348 48.3	S 17 51.4	
07	268 31.2	282 09.2	S 5 50.1	304 03.3	S 15 03.4	309 28.7	S 17 00.5	228 36.8	N 14 35.9	285 57.3	S 9 09.5	352 15.5	S 28 27.2	58.2	Dubhe	193 41.2	N 61 37.2	
08	283 33.7	297 09.3	S 5 49.1	319 02.7	S 15 02.4	324 29.3	S 16 59.9	243 38.8	N 14 36.1	300 59.5	S 9 09.4	6 39.1	S 28 26.2	58.3	Elnath	278 02.7	N 28 37.7	
09	298 36.2	312 09.5	S 5 48.1	334 02.1	S 15 01.5	339 29.8	S 16 59.4	258 40.8	N 14 36.2	316 01.7	S 9 09.3	21 02.7	S 28 25.0	58.3	Etamin	90 42.7	N 51 28.8	
10	313 38.6	327 09.6	S 5 47.2	349 01.5	S 15 00.6	354 30.3	S 16 58.8	273 42.8	N 14 36.4	331 03.9	S 9 09.2	35 26.3	S 28 23.6	58.3	Enif	33 39.8	N 9 59.0	
11	328 41.1	342 09.8	S 5 46.2	4 00.9	S 14 59.7	9 30.8	S 16 58.2	288 44.9	N 14 36.5	346 06.0	S 9 09.0	49 49.9	S 28 22.0	58.4				
12	343 43.5	357 09.9	S 5 45.2	19 00.3	S 14 58.8	24 31.4	S 16 57.7	303 46.9	N 14 36.6	1 08.2	S 9 08.9	64 13.4	S 28 20.3	58.4	Fomalhaut	15 15.6	S 29 29.8	
13	358 46.0	12 10.0	S 5 44.3	33 59.7	S 14 57.8	39 31.9	S 16 57.1	318 48.9	N 14 36.8	16 10.4	S 9 08.8	78 36.8	S 28 18.3	58.5	Gacrux	171 52.0	S 57 14.8	
14	13 48.5	27 10.2	S 5 43.3	48 59.1	S 14 56.9	54 32.4	S 16 56.5	333 51.0	N 14 36.9	31 12.6	S 9 08.7	93 00.3	S 28 16.2	58.5	Gienah	175 44.0	S 17 40.6	
15	28 50.9	42 10.3	S 5 42.3	63 58.5	S 14 56.0	69 32.9	S 16 56.0	348 53.0	N 14 37.1	46 14.7	S 9 08.6	107 23.7	S 28 13.9	58.5	Hadar	148 36.7	S 60 29.2	
16	43 53.4	57 10.5	S 5 41.4	78 57.9	S 14 55.1	84 33.5	S 16 55.4	3 55.0	N 14 37.2	61 16.9	S 9 08.5	121 47.1	S 28 11.4	58.6	Hamal	327 52.2	N 23 34.6	
17	58 55.9	72 10.6	S 5 40.4	93 57.3	S 14 54.1	99 34.0	S 16 54.8	18 57.0	N 14 37.4	76 19.1	S 9 08.4	136 10.5	S 28 08.7	58.6				
18	73 58.3	87 10.8	S 5 39.4	108 56.7	S 14 53.2	114 34.5	S 16 54.2	33 59.1	N 14 37.5	91 21.3	S 9 08.3	150 33.8	S 28 05.8	58.7	Kaus aust.	83 33.6	S 34 22.4	
19	89 00.8	102 10.9	S 5 38.5	123 56.1	S 14 52.3	129 35.0	S 16 53.7	49 01.1	N 14 37.7	106 23.5	S 9 08.1	164 57.1	S 28 02.7	58.7	Kochab	137 19.2	N 74 03.0	
20	104 03.3	117 11.1	S 5 37.5	138 55.6	S 14 51.4	144 35.6	S 16 53.1	64 03.1	N 14 37.8	121 25.6	S 9 08.0	179 20.4	S 27 59.4	58.7	Markab	13 30.9	N 15 20.0	
21	119 05.7	132 11.2	S 5 36.5	153 55.0	S 14 50.4	159 36.1	S 16 52.5	79 05.1	N 14 37.9	136 27.8	S 9 07.9	193 43.7	S 27 56.0	58.8	Menkar	314 07.0	N 4 11.0	
22	134 08.2	147 11.3	S 5 35.5	168 54.4	S 14 49.5	174 36.6	S 16 52.0	94 07.2	N 14 38.1	151 30.0	S 9 07.8	208 07.0	S 27 52.3	58.8	Menkent	147 58.2	S 36 29.3	
23	149 10.7	162 11.5	S 5 34.6	183 53.8	S 14 48.6	189 37.2	S 16 51.4	109 09.2	N 14 38.2	166 32.2	S 9 07.7	222 30.3	S 27 48.5	58.8				
06 00	164 13.1	177 11.6	S 5 33.6	198 53.2	S 14 47.6	204 37.7	S 16 50.8	124 11.2	N 14 38.4	181 34.3	S 9 07.6	236 53.6	S 27 44.5	58.9	Miaplacidus	221 37.7	S 69 49.0	
01	179 15.6	192 11.8	S 5 32.6	213 52.6	S 14 46.7	219 38.2	S 16 50.2	139 13.2	N 14 38.5	196 36.5	S 9 07.5	251 16.8	S 27 40.2	58.9	Mirfak	308 29.4	N 49 57.0	
02	194 18.0	207 11.9	S 5 31.7	228 52.0	S 14 45.8													

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	MARZO	04
07 00	165 12.3	177 15.2	S 5 10.3	198 39.2	S 14 25.1	204 50.4	S 16 37.0	124 59.7	N 14 41.9	182 26.6	S 9 04.9	222 15.1	S 25 11.3	59.8	NOME	360	- AR	Dec.
01	180 14.7	192 15.3	S 5 09.3	213 38.6	S 14 24.2	219 50.9	S 16 36.4	140 01.8	N 14 42.0	197 28.8	S 9 04.7	236 38.9	S 25 02.7	59.8	Acamar	315 12.5	S 40 12.7	
02	195 17.2	207 15.5	S 5 08.3	228 38.0	S 14 23.2	234 51.5	S 16 35.8	155 03.8	N 14 42.2	212 31.0	S 9 04.6	251 02.7	S 24 53.8	59.9	Achernar	335 21.1	S 57 07.1	
03	210 19.7	222 15.6	S 5 07.4	243 37.4	S 14 22.3	249 52.0	S 16 35.2	170 05.8	N 14 42.3	227 33.1	S 9 04.5	265 26.5	S 24 44.8	59.9	Acruz	173 00.3	S 63 13.9	
04	225 22.1	237 15.8	S 5 06.4	258 36.8	S 14 21.3	264 52.5	S 16 34.7	185 07.8	N 14 42.5	242 35.3	S 9 04.4	279 50.4	S 24 35.5	59.9	Adhara	255 06.2	S 29 00.5	
05	240 24.6	252 15.9	S 5 05.4	273 36.3	S 14 20.4	279 53.1	S 16 34.1	200 09.8	N 14 42.6	257 37.5	S 9 04.3	294 14.3	S 24 26.1	60.0	Aldebaran	290 40.4	N 16 33.5	
06	255 27.0	267 16.1	S 5 04.4	288 35.7	S 14 19.4	294 53.6	S 16 33.5	215 11.9	N 14 42.7	272 39.7	S 9 04.2	308 38.3	S 24 16.6	60.0				
07	270 29.5	282 16.2	S 5 03.5	303 35.1	S 14 18.5	309 54.1	S 16 32.9	230 13.9	N 14 42.9	287 41.9	S 9 04.1	323 02.3	S 24 06.8	60.0	Alioth	166 13.1	N 55 49.5	
08	285 32.0	297 16.4	S 5 02.5	318 34.5	S 14 17.5	324 54.7	S 16 32.3	245 15.9	N 14 43.0	302 44.0	S 9 04.0	337 26.4	S 23 56.9	60.1	Alkaid	152 52.2	N 49 11.3	
09	300 34.4	312 16.5	S 5 01.5	333 34.0	S 14 16.6	339 55.2	S 16 31.8	260 17.9	N 14 43.2	317 46.2	S 9 03.8	351 50.5	S 23 46.8	60.1	Alnair	27 34.2	S 46 50.7	
10	315 36.9	327 16.7	S 5 00.5	348 33.4	S 14 15.6	354 55.7	S 16 31.2	275 19.9	N 14 43.3	332 48.4	S 9 03.7	6 14.7	S 23 36.6	60.2	Alnilam	275 38.4	S 1 11.3	
11	330 39.4	342 16.8	S 4 59.6	3 32.8	S 14 14.7	9 56.3	S 16 30.6	290 22.0	N 14 43.5	347 50.6	S 9 03.6	20 39.0	S 23 26.2	60.2	Alphard	217 48.2	S 8 45.9	
12	345 41.8	357 17.0	S 4 58.6	18 32.2	S 14 13.7	24 56.8	S 16 30.0	305 24.0	N 14 43.6	2 52.7	S 9 03.5	35 03.3	S 23 15.6	60.2				
13	0 44.3	12 17.1	S 4 57.6	33 31.7	S 14 12.8	39 57.3	S 16 29.4	320 26.0	N 14 43.8	17 54.9	S 9 03.4	49 27.6	S 23 04.8	60.2	Alphecca	126 04.2	N 26 37.7	
14	15 46.8	27 17.3	S 4 56.6	48 31.1	S 14 11.8	54 57.9	S 16 28.8	335 28.0	N 14 43.9	32 57.1	S 9 03.3	63 52.0	S 22 53.9	60.3	Alpheratz	357 35.9	N 29 13.3	
15	30 49.2	42 17.4	S 4 55.7	63 30.5	S 14 10.8	69 58.4	S 16 28.3	350 30.0	N 14 44.1	47 59.3	S 9 03.2	78 16.5	S 22 42.8	60.3	Altair	62 00.9	N 8 55.7	
16	45 51.7	57 17.6	S 4 54.7	78 29.9	S 14 09.9	84 58.9	S 16 27.7	5 32.1	N 14 44.2	63 01.5	S 9 03.0	92 41.0	S 22 31.6	60.3	Ankaa	353 08.2	S 42 10.7	
17	60 54.1	72 17.7	S 4 53.7	93 29.4	S 14 08.9	99 59.5	S 16 27.1	20 34.1	N 14 44.4	78 03.6	S 9 02.9	107 05.6	S 22 20.2	60.4	Antares	112 16.7	S 26 29.1	
18	75 56.6	87 17.9	S 4 52.7	108 28.8	S 14 08.0	115 00.0	S 16 26.5	35 36.1	N 14 44.5	93 05.8	S 9 02.8	121 30.3	S 22 08.6	60.4				
19	90 59.1	102 18.0	S 4 51.8	123 28.2	S 14 07.0	130 00.5	S 16 25.9	50 38.1	N 14 44.6	108 08.0	S 9 02.7	135 55.0	S 21 56.9	60.4	Arcturus	145 48.3	N 19 03.2	
20	106 01.5	117 18.2	S 4 50.8	138 27.7	S 14 06.0	145 01.1	S 16 25.3	65 40.1	N 14 44.8	123 10.2	S 9 02.6	150 19.8	S 21 45.0	60.5	Atria	107 11.6	S 69 04.0	
21	121 04.0	132 18.3	S 4 49.8	153 27.1	S 14 05.1	160 01.6	S 16 24.7	80 42.1	N 14 44.9	138 12.4	S 9 02.5	164 44.2	S 21 32.9	60.5	Avior	234 14.6	S 59 35.4	
22	136 06.5	147 18.5	S 4 48.8	168 26.5	S 14 04.1	175 02.1	S 16 24.2	95 44.2	N 14 45.1	153 14.5	S 9 02.4	179 09.5	S 21 20.8	60.5	Bellatrix	278 23.6	N 6 22.2	
23	151 08.9	162 18.6	S 4 47.8	183 25.9	S 14 03.2	190 02.7	S 16 23.6	110 46.2	N 14 45.2	168 16.7	S 9 02.3	193 34.5	S 21 08.4	60.6	Betelgeuse	270 52.8	N 7 24.6	
08 00	166 11.4	177 18.8	S 4 46.9	198 25.4	S 14 02.2	205 03.2	S 16 23.0	125 48.2	N 14 45.4	183 18.9	S 9 02.1	207 59.5	S 20 55.9	60.6	Canopus	263 52.5	S 52 42.7	
01	181 13.9	192 18.9	S 4 45.9	213 24.8	S 14 01.2	220 03.8	S 16 22.4	140 50.2	N 14 45.5	198 21.1	S 9 02.0	222 24.7	S 20 43.3	60.6	Capella	280 22.9	N 46 01.5	
02	196 16.3	207 19.1	S 4 44.9	228 24.2	S 14 00.3	235 04.3	S 16 21.8	155 52.2	N 14 45.7	213 23.2	S 9 01.9	236 49.8	S 20 30.5	60.6	Castor	245 57.7	N 31 50.2	
03	211 18.8	222 19.3	S 4 43.9	243 23.7	S 13 59.3	250 04.8	S 16 21.2	170 54.2	N 14 45.8	228 25.4	S 9 01.8	251 15.1	S 20 17.6	60.7	Deneb	49 26.7	N 45 21.7	
04	226 21.3	237 19.4	S 4 43.0	258 23.1	S 13 58.3	265 05.4	S 16 20.6	185 56.2	N 14 46.0	243 27.6	S 9 01.7	265 40.4	S 20 04.5	60.7	Denebola	182 25.4	N 14 26.1	
05	241 23.7	252 19.6	S 4 42.0	273 22.5	S 13 57.4	280 05.9	S 16 20.1	200 58.3	N 14 46.1	258 29.8	S 9 01.6	280 05.8	S 19 51.3	60.7				
06	256 26.2	267 19.7	S 4 41.0	288 22.0	S 13 56.4	295 06.4	S 16 19.5	216 00.3	N 14 46.3	273 32.0	S 9 01.5	294 31.2	S 19 37.9	60.8	Diphda	348 48.3	S 17 51.4	
07	271 28.6	282 19.9	S 4 40.0	303 21.4	S 13 55.4	310 07.0	S 16 18.9	231 02.3	N 14 46.4	288 34.1	S 9 01.4	308 56.7	S 19 24.4	60.8	Dubhe	193 41.2	N 61 37.2	
08	286 31.1	297 20.0	S 4 39.1	318 20.8	S 13 54.5	325 07.5	S 16 18.3	246 04.3	N 14 46.5	303 36.3	S 9 01.2	323 22.3	S 19 10.8	60.8	Elnath	278 02.7	N 28 37.7	
09	301 33.6	312 20.2	S 4 38.1	333 20.3	S 13 53.5	340 08.0	S 16 17.7	261 06.3	N 14 46.7	318 38.5	S 9 01.1	337 48.0	S 18 57.0	60.8	Etamin	90 42.7	N 51 28.7	
10	316 36.0	327 20.3	S 4 37.1	348 19.7	S 13 52.5	355 08.6	S 16 17.1	276 08.3	N 14 46.8	333 40.7	S 9 01.0	352 13.7	S 18 43.1	60.9	Enif	33 39.8	N 9 59.0	
11	331 38.5	342 20.5	S 4 36.1	3 19.1	S 13 51.6	10 09.1	S 16 16.5	291 10.3	N 14 47.0	348 42.8	S 9 00.9	6 39.5	S 18 29.1	60.9				
12	346 41.0	357 20.6	S 4 35.1	18 18.6	S 13 50.6	25 09.7	S 16 15.9	306 12.4	N 14 47.1	3 45.0	S 9 00.8	21 05.3	S 18 14.9	60.9	Fomalhaut	15 15.6	S 29 29.8	
13	1 43.4	12 20.8	S 4 34.2	33 18.0	S 13 49.6	40 10.2	S 16 15.3	321 14.4	N 14 47.3	18 47.2	S 9 00.7	35 31.3	S 18 00.6	60.9	Gacrux	171 52.0	S 57 14.8	
14	16 45.9	27 21.0	S 4 33.2	48 17.5	S 13 48.7	55 10.7	S 16 14.7	336 16.4	N 14 47.4	33 49.4	S 9 00.6	49 57.3	S 17 46.2	61.0	Gienah	175 44.0	S 17 40.6	
15	31 48.4	42 21.1	S 4 32.2	63 16.9	S 13 47.7	70 11.3	S 16 14.2	351 18.4	N 14 47.6	48 51.6	S 9 00.5	64 23.3	S 17 31.6	61.0	Hadar	148 36.6	S 60 29.2	
16	46 50.8	57 21.3	S 4 31.2	78 16.3	S 13 46.7	85 11.8	S 16 13.6	6 20.4	N 14 47.7	63 53.7	S 9 00.3	78 49.5	S 17 17.0	61.0	Hamal	327 52.2	N 23 34.6	
17	61 53.3	72 21.4	S 4 30.3	93 15.8	S 13 45.7	100 12.4	S 16 13.0	21 22.4	N 14 47.9	78 55.9	S 9 00.2	93 15.7	S 17 02.2	61.0				
18	76 55.8	87 21.6	S 4 29.3	108 15.2	S 13 44.8	115 12.9	S 16 12.4	36 24.4	N 14 48.0	93 58.1	S 9 00.1	107 41.9	S 16 47.3	61.0	Kaus aust.	83 33.6	S 34 22.3	
19	91 58.2	102 21.7	S 4 28.3	123 14.6	S 13 43.8	130 13.4	S 16 11.8	51 26.5	N 14 48.2	109 00.3	S 9 00.0	122 08.3	S 16 32.3	61.1	Kochab	137 19.1	N 74 03.0	
20	107 00.7	117 21.9	S 4 27.3	138 14.1	S 13 42.8	145 14.0	S 16 11.2	66 28.5	N 14 48.3	124 02.5	S 8 59.9	136 34.7	S 16 17.1	61.1	Markab	13 30.9	N 15 20.0	
21	122 03.1	132 22.0	S 4 26.3	153 13.5	S 13 41.8	160 14.5	S 16 10.6	81 30.5	N 14 48.5	139 04.6	S 8 59.8	151 01.2	S 16 01.9	61.1	Menkar	314 07.0	N 4 11.0	
22	137 05.6	147 22.2	S 4 25.4	168 13.0	S 13 40.8	175 15.1	S 16 10.0	96 32.5	N 14 48.6	154 06.8	S 8 59.7	165 27.7	S 15 46.5	61.1	Menkent	147 58.2	S 36 29.3	
23	152 08.1	162 22.4	S 4 24.4	183 12.4	S 13 39.9	190 15.6	S 16 09.4	111 34.5	N 14 48.8	169 09.0	S 8 59.5	179 54.3	S 15 31.1	61.1				
09 00	167 10.5	177 22.5	S 4 23.4	198 11.9	S 13 38.9	205 16.1	S 16 08.8	126 36.5	N 14 48.9	184 11.2	S 8 59.4	194 21.0	S 15 15.5	61.2	Miaplacidus	221 37.7	S 69 49.1	
01	182 13.0	192 22.7	S 4 22.4	213 11.3	S 13 37.9	220 16.7	S 16 08.2	141 38.5	N 14 49.1	199 13.3	S 8 59.3	208 47.8	S 14 59.8	61.2	Mirfak	308 29.5	N 49 57.0	
02	197 15.5	207 22.8	S 4 21.5	228 10.7	S 13 36.9													

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	MARZO	07
d h	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	'	NOME	360	- AR	Dec.
10 00	168 09.7	177 26.3	S 3 59.9	197 58.6	S 13 15.2	205 29.1	S 15 54.5	127 24.7	N 14 52.4	185 03.5	S 8 56.7	181 19.8	S 8 35.2	61.4				
01	183 12.1	192 26.5	S 3 58.9	212 58.0	S 13 14.2	220 29.7	S 15 53.9	142 26.7	N 14 52.6	200 05.6	S 8 56.6	195 47.9	S 8 17.7	61.4	Acamar	315 12.5	S 40 12.7	
02	198 14.6	207 26.6	S 3 57.9	227 57.5	S 13 13.2	235 30.2	S 15 53.3	157 28.8	N 14 52.7	215 07.8	S 8 56.5	210 16.1	S 8 00.1	61.4	Achernar	335 21.1	S 57 07.1	
03	213 17.1	222 26.8	S 3 56.9	242 56.9	S 13 12.2	250 30.8	S 15 52.7	172 30.8	N 14 52.9	230 10.0	S 8 56.4	224 44.3	S 7 42.4	61.4	Acruix	173 00.3	S 63 13.9	
04	228 19.5	237 27.0	S 3 56.0	257 56.4	S 13 11.2	265 31.3	S 15 52.1	187 32.8	N 14 53.0	245 12.2	S 8 56.3	239 12.6	S 7 24.7	61.4	Adhara	255 06.2	S 29 00.5	
05	243 22.0	252 27.1	S 3 55.0	272 55.9	S 13 10.2	280 31.9	S 15 51.5	202 34.8	N 14 53.2	260 14.4	S 8 56.2	253 40.9	S 7 07.0	61.4	Aldebaran	290 40.5	N 16 33.5	
06	258 24.5	267 27.3	S 3 54.0	287 55.3	S 13 09.2	295 32.4	S 15 50.9	217 36.8	N 14 53.3	275 16.5	S 8 56.1	268 09.2	S 6 49.2	61.4				
07	273 26.9	282 27.4	S 3 53.0	302 54.8	S 13 08.2	310 33.0	S 15 50.3	232 38.8	N 14 53.5	290 18.7	S 8 55.9	282 37.6	S 6 31.4	61.4	Alioth	166 13.0	N 55 49.5	
08	288 29.4	297 27.6	S 3 52.0	317 54.2	S 13 07.2	325 33.5	S 15 49.7	247 40.8	N 14 53.6	305 20.9	S 8 55.8	297 06.1	S 6 13.5	61.4	Alkaid	152 52.2	N 49 11.3	
09	303 31.8	312 27.8	S 3 51.1	332 53.7	S 13 06.2	340 34.0	S 15 49.1	262 42.8	N 14 53.8	320 23.1	S 8 55.7	311 34.5	S 5 55.6	61.4	Alnair	27 34.2	S 46 50.7	
10	318 34.3	327 27.9	S 3 50.1	347 53.1	S 13 05.2	355 34.6	S 15 48.5	277 44.8	N 14 53.9	335 25.3	S 8 55.6	326 03.0	S 5 37.7	61.4	Alnilam	275 38.4	S 1 11.3	
11	333 36.8	342 28.1	S 3 49.1	2 52.6	S 13 04.2	10 35.1	S 15 47.9	292 46.8	N 14 54.1	350 27.4	S 8 55.5	340 31.6	S 5 19.7	61.4	Alphard	217 48.2	S 8 45.9	
12	348 39.2	357 28.2	S 3 48.1	17 52.0	S 13 03.2	25 35.7	S 15 47.3	307 48.8	N 14 54.2	5 29.6	S 8 55.4	355 00.2	S 5 01.7	61.4				
13	3 41.7	12 28.4	S 3 47.1	32 51.5	S 13 02.2	40 36.2	S 15 46.7	322 50.8	N 14 54.4	20 31.8	S 8 55.3	9 28.8	S 4 43.7	61.4	Alphecca	126 04.2	N 26 37.7	
14	18 44.2	27 28.6	S 3 46.1	47 51.0	S 13 01.2	55 36.8	S 15 46.1	337 52.8	N 14 54.5	35 34.0	S 8 55.2	23 57.5	S 4 25.6	61.4	Alpheratz	357 35.9	N 29 13.3	
15	33 46.6	42 28.7	S 3 45.2	62 50.4	S 13 00.2	70 37.3	S 15 45.5	352 54.8	N 14 54.7	50 36.2	S 8 55.0	38 26.1	S 4 07.5	61.4	Altair	62 00.8	N 8 55.7	
16	48 49.1	57 28.9	S 3 44.2	77 49.9	S 12 59.2	85 37.9	S 15 44.9	7 56.8	N 14 54.8	65 38.3	S 8 54.9	52 54.9	S 3 49.5	61.4	Ankaa	353 08.2	S 42 10.7	
17	63 51.6	72 29.1	S 3 43.2	92 49.3	S 12 58.2	100 38.4	S 15 44.2	22 58.8	N 14 55.0	80 40.5	S 8 54.8	67 23.6	S 3 31.3	61.4	Antares	112 16.6	S 26 29.1	
18	78 54.0	87 29.2	S 3 42.2	107 48.8	S 12 57.2	115 39.0	S 15 43.6	38 00.8	N 14 55.1	95 42.7	S 8 54.7	81 52.4	S 3 13.2	61.4				
19	93 56.5	102 29.4	S 3 41.2	122 48.3	S 12 56.2	130 39.5	S 15 43.0	53 02.8	N 14 55.3	110 44.9	S 8 54.6	96 21.2	S 2 55.1	61.4	Arcturus	145 48.3	N 19 03.2	
20	108 59.0	117 29.5	S 3 40.3	137 47.7	S 12 55.2	145 40.1	S 15 42.4	68 04.8	N 14 55.4	125 47.1	S 8 54.5	110 50.0	S 2 36.9	61.4	Atria	107 11.5	S 69 04.0	
21	124 01.4	132 29.7	S 3 39.3	152 47.2	S 12 54.2	160 40.6	S 15 41.8	83 06.9	N 14 55.6	140 49.2	S 8 54.4	125 18.8	S 2 18.7	61.4	Avior	234 14.6	S 59 35.4	
22	139 03.9	147 29.9	S 3 38.3	167 46.6	S 12 53.2	175 41.2	S 15 41.2	98 08.9	N 14 55.7	155 51.4	S 8 54.3	139 47.9	S 2 00.6	61.4	Bellatrix	278 23.6	N 6 22.2	
23	154 06.3	162 30.0	S 3 37.3	182 46.1	S 12 52.2	190 41.7	S 15 40.6	113 10.9	N 14 55.9	170 53.6	S 8 54.1	154 16.7	S 1 42.4	61.4	Betelgeuse	270 52.8	N 7 24.6	
11 00	169 08.8	177 30.2	S 3 36.3	197 45.6	S 12 51.2	205 42.2	S 15 40.0	128 12.9	N 14 56.0	185 55.8	S 8 54.0	168 45.6	S 1 24.2	61.4	Canopus	263 52.5	S 52 42.7	
01	184 11.3	192 30.4	S 3 35.3	212 45.0	S 12 50.2	220 42.8	S 15 39.4	143 14.9	N 14 56.2	200 58.0	S 8 53.9	183 14.5	S 1 06.0	61.3	Capella	280 22.9	N 46 01.5	
02	199 13.7	207 30.5	S 3 34.4	227 44.5	S 12 49.1	235 43.3	S 15 38.8	158 16.9	N 14 56.3	216 00.1	S 8 53.8	197 43.5	S 0 47.8	61.3	Castor	245 57.7	N 31 50.2	
03	214 16.2	222 30.7	S 3 33.4	242 44.0	S 12 48.1	250 43.9	S 15 38.2	173 18.9	N 14 56.5	231 02.3	S 8 53.7	212 12.5	S 0 29.6	61.3	Deneb	49 26.7	N 45 21.7	
04	229 18.7	237 30.9	S 3 32.4	257 43.4	S 12 47.1	265 44.4	S 15 37.6	188 20.9	N 14 56.6	246 04.5	S 8 53.6	226 41.5	S 0 11.4	61.3	Denebola	182 25.3	N 14 26.1	
05	244 21.1	252 31.0	S 3 31.4	272 42.9	S 12 46.1	280 45.0	S 15 37.0	203 22.9	N 14 56.8	261 06.7	S 8 53.5	241 10.5	N 0 06.7	61.3				
06	259 23.6	267 31.2	S 3 30.4	287 42.3	S 12 45.1	295 45.5	S 15 36.4	218 24.9	N 14 56.9	276 08.9	S 8 53.4	255 39.5	N 0 24.9	61.3	Diphda	348 48.3	S 17 51.4	
07	274 26.1	282 31.3	S 3 29.4	302 41.8	S 12 44.1	310 46.1	S 15 35.7	233 26.9	N 14 57.1	291 11.0	S 8 53.2	270 08.6	N 0 43.1	61.3	Dubhe	193 41.1	N 61 37.2	
08	289 28.5	297 31.5	S 3 28.5	317 41.3	S 12 43.1	325 46.6	S 15 35.1	248 28.9	N 14 57.2	306 13.2	S 8 53.1	284 37.6	N 1 01.2	61.3	Elnath	278 02.7	N 28 37.7	
09	304 31.0	312 31.7	S 3 27.5	332 40.7	S 12 42.1	340 47.2	S 15 34.5	263 30.9	N 14 57.4	321 15.4	S 8 53.0	299 06.7	N 1 19.3	61.2	Etamin	90 42.6	N 51 28.7	
10	319 33.5	327 31.8	S 3 26.5	347 40.2	S 12 41.0	355 47.7	S 15 33.9	278 32.9	N 14 57.5	336 17.6	S 8 52.9	313 35.8	N 1 37.4	61.2	Enif	33 39.8	N 9 59.0	
11	334 35.9	342 32.0	S 3 25.5	2 39.7	S 12 40.0	10 48.3	S 15 33.3	293 34.9	N 14 57.7	351 19.8	S 8 52.8	328 04.9	N 1 55.5	61.2				
12	349 38.4	357 32.2	S 3 24.5	17 39.1	S 12 39.0	25 48.8	S 15 32.7	308 36.9	N 14 57.8	6 21.9	S 8 52.7	342 34.0	N 2 13.6	61.2	Fomalhaut	15 15.6	S 29 29.8	
13	4 40.8	12 32.3	S 3 23.5	32 38.6	S 12 38.0	40 49.4	S 15 32.1	323 38.9	N 14 57.9	21 24.1	S 8 52.6	357 03.1	N 2 31.6	61.2	Gacrux	171 51.9	S 57 14.9	
14	19 43.3	27 32.5	S 3 22.6	47 38.1	S 12 37.0	55 49.9	S 15 31.5	338 40.9	N 14 58.1	36 26.3	S 8 52.5	11 32.2	N 2 49.7	61.2	Gienah	175 44.0	S 17 40.6	
15	34 45.8	42 32.7	S 3 21.6	62 37.6	S 12 36.0	70 50.5	S 15 30.9	353 42.9	N 14 58.2	51 28.5	S 8 52.3	26 01.3	N 3 07.7	61.1	Hadar	148 36.6	S 60 29.2	
16	49 48.2	57 32.8	S 3 20.6	77 37.0	S 12 34.9	85 51.0	S 15 30.3	8 44.9	N 14 58.4	66 30.7	S 8 52.2	40 30.4	N 3 25.6	61.1	Hamal	327 52.2	N 23 34.6	
17	64 50.7	72 33.0	S 3 19.6	92 36.5	S 12 33.9	100 51.6	S 15 29.6	23 46.9	N 14 58.5	81 32.8	S 8 52.1	54 59.5	N 3 43.6	61.1				
18	79 53.2	87 33.2	S 3 18.6	107 36.0	S 12 32.9	115 52.1	S 15 29.0	38 48.9	N 14 58.7	96 35.0	S 8 52.0	69 28.8	N 4 01.5	61.1	Kaus aust.	83 33.6	S 34 22.3	
19	94 55.6	102 33.3	S 3 17.6	122 35.4	S 12 31.9	130 52.7	S 15 28.4	53 50.9	N 14 58.8	111 37.2	S 8 51.9	83 57.7	N 4 19.3	61.1	Kochab	137 19.1	N 74 03.0	
20	109 58.1	117 33.5	S 3 16.6	137 34.9	S 12 30.9	145 53.2	S 15 27.8	68 52.9	N 14 59.0	126 39.4	S 8 51.8	98 26.8	N 4 37.2	61.0	Markab	13 30.9	N 15 20.0	
21	125 00.6	132 33.7	S 3 15.7	152 34.4	S 12 29.8	160 53.8	S 15 27.2	83 54.9	N 14 59.1	141 41.6	S 8 51.7	112 55.9	N 4 55.0	61.0	Menkar	314 07.0	N 4 11.0	
22	140 03.0	147 33.8	S 3 14.7	167 33.8	S 12 28.8	175 54.3	S 15 26.6	98 56.9	N 14 59.3	156 43.7	S 8 51.6	127 25.0	N 5 12.7	61.0	Menkent	147 58.2	S 36 29.3	
23	155 05.5	162 34.0	S 3 13.7	182 33.3	S 12 27.8	190 54.9	S 15 26.0	113 58.9	N 14 59.4	171 45.9	S 8 51.5	141 54.1	N 5 30.4	61.0				
12 00	170 07.9	177 34.2	S 3 12.7	197 32.8	S 12 26.8	205 55.5	S 15 25.4	129 00.9	N 14 59.6	186 48.1	S 8 51.3	156 23.2	N 5 48.1	61.0	Miaplacidus	221 37.7	S 69 49.1	
01	185 10.4	192 34.3	S 3 11.7	212 32.3	S 12 25.7	220 56.0	S 15 24.7	144 02.9	N 14 59.7	201 50.3	S 8 51.2	170 52.3	N 6 05.7	60.9	Mirfak	308 29.5	N 49	

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	MARZO	10
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
13 00	171 07.1	177 38.2	S 2 49.1	197 20.3	S 12 02.0	206 08.8	S 15 10.6	129 48.8	N 15 03.2	187 40.4	S 8 48.7	143 56.5	N 12 33.8	60.3	NOME	360 - AR	Dec.	
01	186 09.5	192 38.4	S 2 48.1	212 19.7	S 12 01.0	221 09.3	S 15 09.9	144 50.8	N 15 03.3	202 42.6	S 8 48.5	158 25.1	N 12 49.8	60.2	Acamar	315 12.5	S 40 12.7	
02	201 12.0	207 38.5	S 2 47.1	227 19.2	S 11 59.9	236 09.9	S 15 09.3	159 52.8	N 15 03.5	217 44.8	S 8 48.4	172 53.6	N 13 05.6	60.2	Achernar	335 21.1	S 57 07.1	
03	216 14.5	222 38.7	S 2 46.1	242 18.7	S 11 58.9	251 10.4	S 15 08.7	174 54.8	N 15 03.6	232 47.0	S 8 48.3	187 22.2	N 13 21.4	60.2	Acruz	173 00.3	S 63 13.9	
04	231 16.9	237 38.9	S 2 45.1	257 18.2	S 11 57.9	266 11.0	S 15 08.1	189 56.8	N 15 03.8	247 49.1	S 8 48.2	201 50.6	N 13 37.1	60.1	Adhara	255 06.3	S 29 00.5	
05	246 19.4	252 39.0	S 2 44.1	272 17.7	S 11 56.8	281 11.5	S 15 07.5	204 58.8	N 15 03.9	262 51.3	S 8 48.1	216 19.1	N 13 52.6	60.1	Aldebaran	290 40.5	N 16 33.5	
06	261 21.9	267 39.2	S 2 43.1	287 17.2	S 11 55.8	296 12.1	S 15 06.8	220 00.8	N 15 04.1	277 53.5	S 8 48.0	230 47.5	N 14 08.1	60.1				
07	276 24.3	282 39.4	S 2 42.2	302 16.7	S 11 54.7	311 12.7	S 15 06.2	235 02.8	N 15 04.2	292 55.7	S 8 47.9	245 15.9	N 14 23.5	60.0	Alioth	166 13.0	N 55 49.5	
08	291 26.8	297 39.6	S 2 41.2	317 16.1	S 11 53.7	326 13.2	S 15 05.6	250 04.8	N 15 04.4	307 57.9	S 8 47.8	259 44.2	N 14 38.8	60.0	Alkaid	152 52.1	N 49 11.3	
09	306 29.3	312 39.7	S 2 40.2	332 15.6	S 11 52.7	341 13.8	S 15 05.0	265 06.8	N 15 04.5	323 00.1	S 8 47.6	274 12.5	N 14 54.0	60.0	Alnair	27 34.2	S 46 50.7	
10	321 31.7	327 39.9	S 2 39.2	347 15.1	S 11 51.6	356 14.3	S 15 04.3	280 08.8	N 15 04.7	338 02.2	S 8 47.5	288 40.8	N 15 09.1	59.9	Alnilam	275 38.4	S 1 11.3	
11	336 34.2	342 40.1	S 2 38.2	2 14.6	S 11 50.6	11 14.9	S 15 03.7	295 10.7	N 15 04.8	353 04.4	S 8 47.4	303 09.1	N 15 24.0	59.9	Alphard	217 48.2	S 8 45.9	
12	351 36.7	357 40.2	S 2 37.2	17 14.1	S 11 49.5	26 15.4	S 15 03.1	310 12.7	N 15 05.0	8 06.6	S 8 47.3	317 37.2	N 15 38.9	59.9				
13	6 39.1	12 40.4	S 2 36.2	32 13.6	S 11 48.5	41 16.0	S 15 02.5	325 14.7	N 15 05.1	23 08.8	S 8 47.2	332 05.4	N 15 53.7	59.8	Alphecca	126 04.2	N 26 37.7	
14	21 41.6	27 40.6	S 2 35.3	47 13.1	S 11 47.4	56 16.6	S 15 01.9	340 16.7	N 15 05.3	38 11.0	S 8 47.1	346 33.5	N 16 08.3	59.8	Alpheratz	357 35.9	N 29 13.3	
15	36 44.0	42 40.8	S 2 34.3	62 12.6	S 11 46.4	71 17.1	S 15 01.2	355 18.7	N 15 05.4	53 13.1	S 8 47.0	1 01.6	N 16 22.9	59.8	Altair	62 00.8	N 8 55.7	
16	51 46.5	57 40.9	S 2 33.3	77 12.0	S 11 45.3	86 17.7	S 15 00.6	10 20.7	N 15 05.6	68 15.3	S 8 46.9	15 29.6	N 16 37.3	59.7	Ankaa	353 08.2	S 42 10.7	
17	66 49.0	72 41.1	S 2 32.3	92 11.5	S 11 44.3	101 18.2	S 15 00.0	25 22.7	N 15 05.7	83 17.5	S 8 46.8	29 57.6	N 16 51.6	59.7	Antares	112 16.6	S 26 29.1	
18	81 51.4	87 41.3	S 2 31.3	107 11.0	S 11 43.3	116 18.8	S 14 59.4	40 24.7	N 15 05.9	98 19.7	S 8 46.6	44 25.6	N 17 05.8	59.6				
19	96 53.9	102 41.4	S 2 30.3	122 10.5	S 11 42.2	131 19.4	S 14 58.7	55 26.7	N 15 06.0	113 21.9	S 8 46.5	58 53.5	N 17 19.9	59.6	Arcturus	145 48.3	N 19 03.2	
20	111 56.4	117 41.6	S 2 29.3	137 10.0	S 11 41.2	146 19.9	S 14 58.1	70 28.7	N 15 06.2	128 24.0	S 8 46.4	73 21.4	N 17 33.9	59.6	Atria	107 11.5	S 69 04.0	
21	126 58.8	132 41.8	S 2 28.3	152 09.5	S 11 40.1	161 20.5	S 14 57.5	85 30.7	N 15 06.3	143 26.2	S 8 46.3	87 49.2	N 17 47.7	59.5	Avior	234 14.6	S 59 35.4	
22	142 01.3	147 42.0	S 2 27.4	167 09.0	S 11 39.1	176 21.0	S 14 56.9	100 32.7	N 15 06.5	158 28.4	S 8 46.2	102 17.0	N 18 01.4	59.5	Bellatrix	278 23.6	N 6 22.2	
23	157 03.8	162 42.1	S 2 26.4	182 08.5	S 11 38.0	191 21.6	S 14 56.2	115 34.6	N 15 06.6	173 30.6	S 8 46.1	116 44.7	N 18 15.1	59.5	Betelgeuse	270 52.8	N 7 24.6	
14 00	172 06.2	177 42.3	S 2 25.4	197 08.0	S 11 37.0	206 22.2	S 14 55.6	130 36.6	N 15 06.8	188 32.8	S 8 46.0	131 12.4	N 18 28.5	59.4	Canopus	263 52.6	S 52 42.7	
01	187 08.7	192 42.5	S 2 24.4	212 07.5	S 11 35.0	221 22.7	S 14 55.0	145 38.6	N 15 06.9	203 35.0	S 8 45.9	145 40.1	N 18 41.9	59.4	Capella	280 22.9	N 46 01.5	
02	202 11.1	207 42.6	S 2 23.4	227 07.0	S 11 34.9	236 23.3	S 14 54.4	160 40.6	N 15 07.1	218 37.1	S 8 45.7	160 07.7	N 18 55.1	59.3	Castor	245 57.7	N 31 50.2	
03	217 13.6	222 42.8	S 2 22.4	242 06.5	S 11 33.8	251 23.8	S 14 53.7	175 42.6	N 15 07.3	233 39.3	S 8 45.6	174 35.3	N 19 08.2	59.3	Deneb	49 26.6	N 45 21.7	
04	232 16.1	237 43.0	S 2 21.4	257 05.9	S 11 32.8	266 24.4	S 14 53.1	190 44.6	N 15 07.4	248 41.5	S 8 45.5	189 02.8	N 19 21.2	59.3	Denebola	182 25.3	N 14 26.1	
05	247 18.5	252 43.2	S 2 20.4	272 05.4	S 11 31.7	281 25.0	S 14 52.5	205 46.6	N 15 07.6	263 43.7	S 8 45.4	203 30.3	N 19 34.1	59.2				
06	262 21.0	267 43.3	S 2 19.5	287 04.9	S 11 30.6	296 25.5	S 14 51.8	220 48.6	N 15 07.7	278 45.9	S 8 45.3	217 57.7	N 19 46.8	59.2	Diphda	348 48.3	S 17 51.4	
07	277 23.5	282 43.5	S 2 18.5	302 04.4	S 11 29.6	311 26.1	S 14 51.2	235 50.6	N 15 07.9	293 48.0	S 8 45.2	232 25.1	N 19 59.4	59.1	Dubhe	193 41.1	N 61 37.2	
08	292 25.9	297 43.7	S 2 17.5	317 03.9	S 11 28.5	326 26.6	S 14 50.6	250 52.6	N 15 08.0	308 50.2	S 8 45.1	246 52.4	N 20 11.9	59.1	Elnath	278 02.7	N 28 37.7	
09	307 28.4	312 43.9	S 2 16.5	332 03.4	S 11 27.5	341 27.2	S 14 50.0	265 54.6	N 15 08.2	323 52.4	S 8 45.0	261 19.8	N 20 24.2	59.1	Etamin	90 42.6	N 51 28.7	
10	322 30.9	327 44.0	S 2 15.5	347 02.9	S 11 26.4	356 27.8	S 14 49.3	280 56.5	N 15 08.3	338 54.6	S 8 44.9	275 47.0	N 20 36.4	59.0	Enif	33 39.8	N 9 59.0	
11	337 33.3	342 44.2	S 2 14.5	2 02.4	S 11 25.4	11 28.3	S 14 48.7	299 58.5	N 15 08.5	353 56.8	S 8 44.7	290 14.2	N 20 48.4	59.0				
12	352 35.8	357 44.4	S 2 13.5	17 01.9	S 11 24.3	26 28.9	S 14 48.1	311 00.5	N 15 08.6	8 59.0	S 8 44.6	304 41.4	N 21 00.3	59.0	Fomalhaut	15 15.6	S 29 29.8	
13	7 38.3	12 44.6	S 2 12.5	32 01.4	S 11 23.2	41 29.5	S 14 47.4	326 02.5	N 15 08.8	24 01.1	S 8 44.5	319 08.5	N 21 12.1	58.9	Gacrux	171 51.9	S 57 14.9	
14	22 40.7	27 44.7	S 2 11.6	47 00.9	S 11 22.2	56 30.0	S 14 46.8	341 04.5	N 15 08.9	39 03.3	S 8 44.4	333 35.6	N 21 23.8	58.9	Gienah	175 44.0	S 17 40.6	
15	37 43.2	42 44.9	S 2 10.6	62 00.4	S 11 21.1	71 30.6	S 14 46.2	356 06.5	N 15 09.1	54 05.5	S 8 44.3	348 02.7	N 21 35.3	58.8	Hadar	148 36.6	S 60 29.2	
16	52 45.6	57 45.1	S 2 09.6	76 59.9	S 11 20.1	86 31.1	S 14 45.6	11 08.5	N 15 09.2	69 07.7	S 8 44.2	2 29.7	N 21 46.6	58.8	Hamal	327 52.2	N 23 34.6	
17	67 48.1	72 45.2	S 2 08.6	91 59.4	S 11 19.0	101 31.7	S 14 44.9	26 10.4	N 15 09.4	84 09.9	S 8 44.1	16 56.6	N 21 57.8	58.8				
18	82 50.6	87 45.4	S 2 07.6	106 58.9	S 11 18.0	116 32.3	S 14 44.3	41 12.4	N 15 09.5	99 12.0	S 8 44.0	31 23.6	N 22 08.9	58.7	Kaus aust.	83 33.5	S 34 22.3	
19	97 53.0	102 45.6	S 2 06.6	121 58.4	S 11 16.9	131 32.8	S 14 43.7	56 14.4	N 15 09.7	114 14.2	S 8 43.9	45 50.4	N 22 19.8	58.7	Kochab	137 19.0	N 74 03.0	
20	112 55.5	117 45.8	S 2 05.6	136 57.9	S 11 15.8	146 33.4	S 14 43.0	71 16.4	N 15 09.8	129 16.4	S 8 43.7	60 17.3	N 22 30.6	58.6	Markab	13 30.9	N 15 19.9	
21	127 58.0	132 45.9	S 2 04.6	151 57.4	S 11 14.8	161 34.0	S 14 42.4	86 18.4	N 15 10.0	144 18.6	S 8 43.6	74 44.1	N 22 41.3	58.6	Menkar	314 07.0	N 4 11.0	
22	143 00.4	147 46.1	S 2 03.7	166 56.9	S 11 13.7	176 34.5	S 14 41.8	101 20.4	N 15 10.1	159 20.8	S 8 43.5	89 10.8	N 22 51.8	58.6	Menkent	147 58.2	S 36 29.3	
23	158 02.9	162 46.3	S 2 02.7	181 56.4	S 11 12.6	191 35.1	S 14 41.1	116 22.4	N 15 10.3	174 23.0	S 8 43.4	103 37.5	N 23 02.1	58.5				
15 00	173 05.4	177 46.5	S 2 01.7	196 55.9	S 11 11.6	206 35.7	S 14 40.5	131 24.4	N 15 10.4	189 25.1	S 8 43.3	118 04.2	N 23 12.3	58.5	Miaplacidus	221 37.7	S 69 49.1	
01	188 07.8	192 46.6	S 2 00.7	211 55.4	S 11 10.5	221 36.2	S 14 39.9	146 26.4	N 15 10.6	204 27.3	S 8 43.2	132 30.8	N 23 22.3	58.4				

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	MARZO	13
d h	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "			
16 00	174 04.5	177 50.7	S 1 38.0	196 44.1	S 10 45.9	206 49.3	S 14 25.3	132 12.0	N 15 14.1	190 17.5	S 8 40.6	104 34.4	N 26 30.5	57.5	NOME	360	- AR	Dec.
01	189 07.0	192 50.9	S 1 37.0	211 43.6	S 10 44.8	221 49.8	S 14 24.6	147 14.0	N 15 14.2	205 19.7	S 8 40.5	119 00.4	N 26 36.7	57.5	Acamar	315 12.5	S 40 12.7	
02	204 09.4	207 51.1	S 1 36.0	226 43.1	S 10 43.7	236 50.4	S 14 24.0	162 16.0	N 15 14.4	220 21.9	S 8 40.4	133 26.3	N 26 42.8	57.4	Achernar	335 21.1	S 57 07.0	
03	219 11.9	222 51.2	S 1 35.0	241 42.6	S 10 42.7	251 51.0	S 14 23.3	177 18.0	N 15 14.5	235 24.1	S 8 40.3	147 52.2	N 26 48.8	57.4	Acruis	173 00.3	S 63 14.0	
04	234 14.4	237 51.4	S 1 34.0	256 42.1	S 10 41.6	266 51.5	S 14 22.7	192 19.9	N 15 14.7	250 26.2	S 8 40.2	162 18.1	N 26 54.5	57.4	Adhara	255 06.3	S 29 00.5	
05	249 16.8	252 51.6	S 1 33.0	271 41.6	S 10 40.5	281 52.1	S 14 22.1	207 21.9	N 15 14.8	265 28.4	S 8 40.1	176 44.0	N 27 00.1	57.3	Aldebaran	290 40.5	N 16 33.5	
06	264 19.3	267 51.8	S 1 32.0	286 41.2	S 10 39.4	296 52.7	S 14 21.4	222 23.9	N 15 15.0	280 30.6	S 8 40.0	191 09.9	N 27 05.5	57.3				
07	279 21.7	282 51.9	S 1 31.0	301 40.7	S 10 38.4	311 53.2	S 14 20.8	237 25.9	N 15 15.1	295 32.8	S 8 39.8	205 35.8	N 27 10.8	57.3	Alioth	166 13.0	N 55 49.6	
08	294 24.2	297 52.1	S 1 30.1	316 40.2	S 10 37.3	326 53.8	S 14 20.2	252 27.9	N 15 15.3	310 35.0	S 8 39.7	220 01.7	N 27 15.9	57.2	Alkaid	152 52.1	N 49 11.3	
09	309 26.7	312 52.3	S 1 29.1	331 39.7	S 10 36.2	341 54.4	S 14 19.5	267 29.9	N 15 15.4	325 37.2	S 8 39.6	234 27.5	N 27 20.9	57.2	Alnair	27 34.2	S 46 50.7	
10	324 29.1	327 52.5	S 1 28.1	346 39.2	S 10 35.1	356 54.9	S 14 18.9	282 31.8	N 15 15.6	340 39.3	S 8 39.5	248 53.4	N 27 25.6	57.1	Alnilam	275 38.4	S 1 11.3	
11	339 31.6	342 52.7	S 1 27.1	1 38.7	S 10 34.0	11 55.5	S 14 18.2	297 33.8	N 15 15.7	355 41.5	S 8 39.4	263 19.2	N 27 30.2	57.1	Alphard	217 48.2	S 8 45.9	
12	354 34.1	357 52.8	S 1 26.1	16 38.2	S 10 32.9	26 56.1	S 14 17.6	312 35.8	N 15 15.9	10 43.7	S 8 39.3	277 45.1	N 27 34.7	57.1				
13	9 36.5	12 53.0	S 1 25.1	31 37.8	S 10 31.9	41 56.7	S 14 16.9	327 37.8	N 15 16.0	25 45.9	S 8 39.2	292 10.9	N 27 39.0	57.0	Alphecca	126 04.1	N 26 37.7	
14	24 39.0	27 53.2	S 1 24.1	46 37.3	S 10 30.8	56 57.2	S 14 16.3	342 39.8	N 15 16.2	40 48.1	S 8 39.1	306 36.8	N 27 43.1	57.0	Alpheratz	357 35.9	N 29 13.3	
15	39 41.5	42 53.4	S 1 23.1	61 36.8	S 10 29.7	71 57.8	S 14 15.7	357 41.7	N 15 16.3	55 50.3	S 8 39.0	321 02.6	N 27 47.0	57.0	Altair	62 00.8	N 8 55.7	
16	54 43.9	57 53.6	S 1 22.1	76 36.3	S 10 28.6	86 58.4	S 14 15.0	12 43.7	N 15 16.5	70 52.4	S 8 38.9	335 28.5	N 27 50.8	56.9	Ankaa	353 08.2	S 42 10.7	
17	69 46.4	72 53.7	S 1 21.2	91 35.8	S 10 27.5	101 58.9	S 14 14.4	27 45.7	N 15 16.6	85 54.6	S 8 38.7	349 54.4	N 27 54.4	56.9	Antares	112 16.6	S 26 29.1	
18	84 48.9	87 53.9	S 1 20.2	106 35.3	S 10 26.4	116 59.5	S 14 13.7	42 47.7	N 15 16.8	100 56.8	S 8 38.6	4 20.2	N 27 57.8	56.8				
19	99 51.3	102 54.1	S 1 19.2	121 34.9	S 10 25.4	132 00.1	S 14 13.1	57 49.7	N 15 17.0	115 59.0	S 8 38.5	18 46.1	N 28 01.1	56.8	Arcturus	145 48.3	N 19 03.2	
20	114 53.8	117 54.3	S 1 18.2	136 34.4	S 10 24.3	147 00.7	S 14 12.5	72 51.6	N 15 17.1	131 01.2	S 8 38.4	33 12.0	N 28 04.2	56.8	Atria	107 11.4	S 69 04.0	
21	129 56.2	132 54.5	S 1 17.2	151 33.9	S 10 23.2	162 01.2	S 14 11.8	87 53.6	N 15 17.3	146 03.4	S 8 38.3	47 37.9	N 28 07.2	56.7	Avior	234 14.6	S 59 35.4	
22	144 58.7	147 54.6	S 1 16.2	166 33.4	S 10 22.1	177 01.8	S 14 11.2	102 55.6	N 15 17.4	161 05.5	S 8 38.2	62 03.8	N 28 10.0	56.7	Bellatrix	278 23.6	N 6 22.2	
23	160 01.2	162 54.8	S 1 15.2	181 32.9	S 10 21.0	192 02.4	S 14 10.5	117 57.6	N 15 17.6	176 07.7	S 8 38.1	76 29.8	N 28 12.6	56.7	Betelgeuse	270 52.8	N 7 24.6	
17 00	175 03.6	177 55.0	S 1 14.2	196 32.5	S 10 19.9	207 02.9	S 14 09.9	132 59.6	N 15 17.7	191 09.9	S 8 38.0	90 55.7	N 28 15.1	56.6	Canopus	263 52.6	S 52 42.8	
01	190 06.1	192 55.2	S 1 13.2	211 32.0	S 10 18.8	222 03.5	S 14 09.2	148 01.5	N 15 17.9	206 12.1	S 8 37.9	105 21.7	N 28 17.3	56.6	Capella	280 22.9	N 46 01.5	
02	205 08.6	207 55.4	S 1 12.3	226 31.5	S 10 17.7	237 04.1	S 14 08.6	163 03.5	N 15 18.0	221 14.3	S 8 37.7	119 47.7	N 28 19.5	56.6	Castor	245 57.7	N 31 50.2	
03	220 11.0	222 55.5	S 1 11.3	241 31.0	S 10 16.7	252 04.7	S 14 07.9	178 05.5	N 15 18.2	236 16.5	S 8 37.6	134 13.7	N 28 21.4	56.5	Deneb	49 26.6	N 45 21.7	
04	235 13.5	237 55.7	S 1 10.3	256 30.6	S 10 15.6	267 05.2	S 14 07.3	193 07.5	N 15 18.3	251 18.6	S 8 37.5	148 39.7	N 28 23.2	56.5	Denebola	182 25.3	N 14 26.1	
05	250 16.0	252 55.9	S 1 09.3	271 30.1	S 10 14.5	282 05.8	S 14 06.7	208 09.5	N 15 18.5	266 20.8	S 8 37.4	163 05.8	N 28 24.9	56.5				
06	265 18.4	267 56.1	S 1 08.3	286 29.6	S 10 13.4	297 06.4	S 14 06.0	223 11.4	N 15 18.6	281 23.0	S 8 37.3	177 31.8	N 28 26.3	56.4	Diphda	348 48.3	S 17 51.4	
07	280 20.9	282 56.3	S 1 07.3	301 29.1	S 10 12.3	312 07.0	S 14 05.4	238 13.4	N 15 18.8	296 25.2	S 8 37.2	191 58.0	N 28 27.7	56.4	Dubhe	193 41.1	N 61 37.2	
08	295 23.4	297 56.4	S 1 06.3	316 28.6	S 10 11.2	327 07.5	S 14 04.7	253 15.4	N 15 18.9	311 27.4	S 8 37.1	206 24.1	N 28 28.8	56.4	Elnath	278 02.7	N 28 37.7	
09	310 25.8	312 56.6	S 1 05.3	331 28.2	S 10 10.1	342 08.1	S 14 04.1	268 17.4	N 15 19.1	326 29.6	S 8 37.0	220 50.3	N 28 29.8	56.3	Etamin	90 42.6	N 51 28.7	
10	325 28.3	327 56.8	S 1 04.4	346 27.7	S 10 09.0	357 08.7	S 14 03.4	283 19.4	N 15 19.2	341 31.8	S 8 36.9	235 16.5	N 28 30.6	56.3	Enif	33 39.8	N 9 58.9	
11	340 30.7	342 57.0	S 1 03.4	1 27.2	S 10 07.9	12 09.3	S 14 02.8	298 21.3	N 15 19.4	356 33.9	S 8 36.7	249 42.7	N 28 31.3	56.3				
12	355 33.2	357 57.2	S 1 02.4	16 26.7	S 10 06.8	27 09.8	S 14 02.1	313 23.3	N 15 19.5	11 36.1	S 8 36.6	264 09.0	N 28 31.8	56.2	Fomalhaut	15 15.6	S 29 29.8	
13	10 35.7	12 57.3	S 1 01.4	31 26.3	S 10 05.7	42 10.4	S 14 01.5	328 25.3	N 15 19.7	26 38.3	S 8 36.5	278 35.3	N 28 32.1	56.2	Gacrux	171 51.9	S 57 14.9	
14	25 38.1	27 57.5	S 1 00.4	46 25.8	S 10 04.6	57 11.0	S 14 00.8	343 27.3	N 15 19.9	41 40.5	S 8 36.4	293 01.6	N 28 32.3	56.2	Gienah	175 44.0	S 17 40.7	
15	40 40.6	42 57.7	S 0 59.4	61 25.3	S 10 03.6	72 11.5	S 14 00.2	358 29.2	N 15 20.0	56 42.7	S 8 36.3	307 28.0	N 28 32.3	56.1	Hadar	148 36.5	S 60 29.3	
16	55 43.1	57 57.9	S 0 58.4	76 24.8	S 10 02.5	87 12.1	S 13 59.5	13 31.2	N 15 20.2	71 44.9	S 8 36.2	321 54.4	N 28 32.2	56.1	Hamal	327 52.3	N 23 34.6	
17	70 45.5	72 58.1	S 0 57.4	91 24.4	S 10 01.4	102 12.7	S 13 58.9	28 33.2	N 15 20.3	86 47.0	S 8 36.1	336 20.9	N 28 31.9	56.1				
18	85 48.0	87 58.2	S 0 56.4	106 23.9	S 10 00.3	117 13.3	S 13 58.3	43 35.2	N 15 20.5	101 49.2	S 8 36.0	350 47.4	N 28 31.4	56.0	Kaus aust.	83 33.5	S 34 22.3	
19	100 50.5	102 58.4	S 0 55.5	121 23.4	S 9 59.2	132 13.9	S 13 57.6	58 37.1	N 15 20.6	116 51.4	S 8 35.9	5 13.9	N 28 30.8	56.0	Kochab	137 19.0	N 74 03.0	
20	115 52.9	117 58.6	S 0 54.5	136 23.0	S 9 58.1	147 14.4	S 13 57.0	73 39.1	N 15 20.8	131 53.6	S 8 35.8	19 40.6	N 28 30.1	56.0	Markab	13 30.9	N 15 19.9	
21	130 55.4	132 58.8	S 0 53.5	151 22.5	S 9 57.0	162 15.0	S 13 56.3	88 41.1	N 15 20.9	146 55.8	S 8 35.6	34 07.2	N 28 29.1	55.9	Menkar	314 07.1	N 4 11.0	
22	145 57.9	147 59.0	S 0 52.5	166 22.0	S 9 55.9	177 15.6	S 13 55.7	103 43.1	N 15 21.1	161 58.0	S 8 35.5	48 33.9	N 28 28.1	55.9	Menkent	147 58.2	S 36 29.3	
23	161 00.3	162 59.1	S 0 51.5	181 21.5	S 9 54.8	192 16.2	S 13 55.0	118 45.0	N 15 21.2	177 00.1	S 8 35.4	63 00.6	N 28 26.8	55.9				
18 00	176 02.8	177 59.3	S 0 50.5	196 21.1	S 9 53.7	207 16.7	S 13 54.4	133 47.0	N 15 21.4	192 02.3	S 8 35.3	77 27.5	N 28 25.4	55.9	Miaplacidus	221 37.8	S 69 49.1	
01	191 05.2	192 59.5	S 0 49.5	211 20.6	S 9 52.6	222 17.3	S 13 53.7	148 49.0	N 15 21.5	207 04.5	S 8 35.2	91 54.3	N 28 23.9	55.8	M			

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	MARZO	16
19 00	177 01.9	178 03.7	S 0 26.8	196 09.9	S 9 27.2	207 30.6	S 13 38.7	134 34.4	N 15 25.1	192 54.8	S 8 32.7	64 29.4	N 27 08.1	55.2	NOME	360	- AR	Dec.
01	192 04.4	193 03.9	S 0 25.8	211 09.4	S 9 26.0	222 31.2	S 13 38.0	149 36.4	N 15 25.2	207 57.0	S 8 32.6	78 57.8	N 27 03.1	55.2	Acamar	315 12.5	S 40 12.7	
02	207 06.8	208 04.1	S 0 24.8	226 08.9	S 9 24.9	237 31.8	S 13 37.4	164 38.3	N 15 25.4	222 59.1	S 8 32.4	93 26.4	N 26 58.0	55.2	Achernar	335 21.2	S 57 07.0	
03	222 09.3	223 04.3	S 0 23.8	241 08.5	S 9 23.8	252 32.4	S 13 36.7	179 40.3	N 15 25.5	238 01.3	S 8 32.3	107 55.0	N 26 52.7	55.1	AcruX	173 00.3	S 63 14.0	
04	237 11.8	238 04.5	S 0 22.8	256 08.0	S 9 22.7	267 32.9	S 13 36.1	194 42.3	N 15 25.7	253 03.5	S 8 32.2	122 23.7	N 26 47.4	55.1	Adhara	255 06.3	S 29 00.5	
05	252 14.2	253 04.6	S 0 21.8	271 07.6	S 9 21.6	282 33.5	S 13 35.4	209 44.3	N 15 25.8	268 05.5	S 8 32.1	136 52.5	N 26 41.9	55.1	Aldebaran	290 40.5	N 16 33.4	
06	267 16.7	268 04.8	S 0 20.9	286 07.1	S 9 20.5	297 34.1	S 13 34.8	224 46.2	N 15 26.0	283 07.9	S 8 32.0	151 21.3	N 26 36.3	55.1				
07	282 19.2	283 05.0	S 0 19.9	301 06.6	S 9 19.4	312 34.7	S 13 34.1	239 48.2	N 15 26.1	298 10.1	S 8 31.9	165 50.3	N 26 30.5	55.0	Alioth	166 13.0	N 55 49.6	
08	297 21.6	298 05.2	S 0 18.9	316 06.2	S 9 18.3	327 35.3	S 13 33.5	254 50.2	N 15 26.3	313 12.2	S 8 31.8	180 19.3	N 26 24.6	55.0	Alkaid	152 52.1	N 49 11.3	
09	312 24.1	313 05.4	S 0 17.9	331 05.7	S 9 17.1	342 35.8	S 13 32.8	269 52.1	N 15 26.4	328 14.4	S 8 31.7	194 48.4	N 26 18.6	55.0	Alnair	27 34.2	S 46 50.7	
10	327 26.6	328 05.6	S 0 16.9	346 05.3	S 9 16.0	357 36.4	S 13 32.1	284 54.1	N 15 26.6	343 16.6	S 8 31.6	209 17.6	N 26 12.5	55.0	Alnilam	275 38.4	S 1 11.3	
11	342 29.0	343 05.7	S 0 15.9	1 04.8	S 9 14.9	12 37.0	S 13 31.5	299 56.1	N 15 26.7	358 18.8	S 8 31.5	223 46.8	N 26 06.3	55.0	Alphard	217 48.2	S 8 45.9	
12	357 31.5	358 05.9	S 0 14.9	16 04.4	S 9 13.8	27 37.6	S 13 30.8	314 58.1	N 15 26.9	13 21.0	S 8 31.3	238 16.2	N 25 59.9	54.9				
13	12 34.0	13 06.1	S 0 13.9	31 03.9	S 9 12.7	42 38.2	S 13 30.2	330 00.0	N 15 27.0	28 23.2	S 8 31.2	252 45.6	N 25 53.4	54.9	Alphecca	126 04.1	N 26 37.7	
14	27 36.4	28 06.3	S 0 12.9	46 03.4	S 9 11.6	57 38.8	S 13 29.5	345 02.0	N 15 27.2	43 25.4	S 8 31.1	267 15.2	N 25 46.8	54.9	Alpheratz	357 35.9	N 29 13.3	
15	42 38.9	43 06.5	S 0 12.0	61 03.0	S 9 10.5	72 39.3	S 13 28.9	0 04.0	N 15 27.4	58 27.5	S 8 31.0	281 44.8	N 25 40.1	54.9	Altair	62 00.8	N 8 55.7	
16	57 41.3	58 06.7	S 0 11.0	76 02.5	S 9 09.3	87 39.9	S 13 28.2	15 05.9	N 15 27.5	73 29.7	S 8 30.9	296 14.4	N 25 33.2	54.9	Ankaa	353 08.2	S 42 10.7	
17	72 43.8	73 06.8	S 0 10.0	91 02.1	S 9 08.2	102 40.5	S 13 27.5	30 07.9	N 15 27.7	88 31.9	S 8 30.8	310 44.2	N 25 26.3	54.8	Antares	112 16.6	S 26 29.1	
18	87 46.3	88 07.0	S 0 09.0	106 01.6	S 9 07.1	117 41.1	S 13 26.9	45 09.9	N 15 27.8	103 34.1	S 8 30.7	325 14.1	N 25 19.2	54.8				
19	102 48.7	103 07.2	S 0 08.0	121 01.2	S 9 06.0	132 41.7	S 13 26.2	60 11.8	N 15 28.0	118 36.3	S 8 30.6	339 44.0	N 25 12.0	54.8	Arcturus	145 48.3	N 19 03.2	
20	117 51.2	118 07.4	S 0 07.0	136 00.7	S 9 04.9	147 42.3	S 13 25.6	75 13.8	N 15 28.1	133 38.5	S 8 30.5	354 14.0	N 25 04.7	54.8	Atria	107 11.3	S 69 04.0	
21	132 53.7	133 07.6	S 0 06.0	151 00.2	S 9 03.7	162 42.8	S 13 24.9	90 15.8	N 15 28.3	148 40.7	S 8 30.4	8 44.1	N 24 57.2	54.8	Avior	234 14.7	S 59 35.4	
22	147 56.1	148 07.8	S 0 05.0	165 59.8	S 9 02.6	177 43.4	S 13 24.2	105 17.7	N 15 28.4	163 42.8	S 8 30.3	23 14.3	N 24 49.7	54.7	Bellatrix	278 23.6	N 6 22.2	
23	162 58.6	163 08.0	S 0 04.1	180 59.3	S 9 01.5	192 44.0	S 13 23.6	120 19.7	N 15 28.6	178 45.0	S 8 30.1	37 44.6	N 24 42.1	54.7	Betelgeuse	270 52.8	N 7 24.6	
20 00	178 01.1	178 08.1	S 0 03.1	195 58.9	S 9 00.4	207 44.6	S 13 22.9	135 21.7	N 15 28.7	193 47.2	S 8 30.0	52 15.0	N 24 34.3	54.7	Canopus	263 52.6	S 52 42.8	
01	193 03.5	193 08.3	S 0 02.1	210 58.4	S 8 59.3	222 45.2	S 13 22.3	150 23.7	N 15 28.9	208 49.4	S 8 29.9	66 45.4	N 24 26.5	54.7	Capella	280 23.0	N 46 01.5	
02	208 06.0	208 08.5	S 0 01.1	225 58.0	S 8 58.1	237 45.8	S 13 21.6	165 25.6	N 15 29.0	223 51.6	S 8 29.8	81 16.0	N 24 18.5	54.7	Castor	245 57.8	N 31 50.2	
03	223 08.5	223 08.7	S 0 00.1	240 57.5	S 8 57.0	252 46.3	S 13 20.9	180 27.6	N 15 29.2	238 53.8	S 8 29.7	95 46.6	N 24 10.4	54.7	Deneb	49 26.6	N 45 21.7	
04	238 10.9	238 08.9	N 0 00.9	255 57.1	S 8 55.9	267 46.9	S 13 20.3	195 29.6	N 15 29.4	253 56.0	S 8 29.6	110 17.3	N 24 02.2	54.6	Denebola	182 25.3	N 44 26.1	
05	253 13.4	253 09.1	N 0 01.9	270 56.6	S 8 54.8	282 47.5	S 13 19.6	210 31.5	N 15 29.5	268 58.2	S 8 29.5	124 48.1	N 23 53.9	54.6				
06	268 15.8	268 09.3	N 0 02.9	285 56.2	S 8 53.7	297 48.1	S 13 18.9	225 33.5	N 15 29.7	284 00.3	S 8 29.4	139 19.0	N 23 45.6	54.6	Diphda	348 48.3	S 17 51.4	
07	283 18.3	283 09.4	N 0 03.9	300 55.7	S 8 52.5	312 48.7	S 13 18.3	240 35.5	N 15 29.8	299 02.5	S 8 29.3	153 49.9	N 23 37.1	54.6	Dubhe	193 41.1	N 61 37.2	
08	298 20.8	298 09.6	N 0 04.8	315 55.3	S 8 51.4	327 49.3	S 13 17.6	255 37.4	N 15 30.0	314 04.7	S 8 29.2	168 21.0	N 23 28.5	54.6	Elnath	278 02.8	N 28 37.7	
09	313 23.2	313 09.8	N 0 05.8	330 54.8	S 8 50.3	342 49.9	S 13 17.0	270 39.4	N 15 30.1	329 06.9	S 8 29.0	182 52.1	N 23 19.8	54.6	Etamin	90 42.5	N 51 28.7	
10	328 25.7	328 10.0	N 0 06.8	345 54.4	S 8 49.2	357 50.4	S 13 16.3	285 41.4	N 15 30.3	344 09.1	S 8 28.9	197 23.3	N 23 11.0	54.5	Enif	33 39.7	N 9 58.9	
11	343 28.2	343 10.2	N 0 07.8	0 53.9	S 8 48.0	12 51.0	S 13 15.6	300 43.3	N 15 30.4	359 11.3	S 8 28.8	211 54.6	N 23 02.1	54.5				
12	358 30.6	358 10.4	N 0 08.8	15 53.5	S 8 46.9	27 51.6	S 13 15.0	315 45.3	N 15 30.6	14 13.5	S 8 28.7	226 26.0	N 22 53.1	54.5	Fomalhaut	15 15.6	S 29 29.8	
13	13 33.1	13 10.6	N 0 09.8	30 53.0	S 8 45.8	42 52.2	S 13 14.3	330 47.3	N 15 30.7	29 15.6	S 8 28.6	240 57.4	N 22 44.0	54.5	Gacrux	171 51.9	S 57 14.9	
14	28 35.6	28 10.7	N 0 10.8	45 52.6	S 8 44.7	57 52.8	S 13 13.6	345 49.2	N 15 30.9	44 17.8	S 8 28.5	255 29.0	N 22 34.8	54.5	Gienah	175 44.0	S 17 40.7	
15	43 38.0	43 10.9	N 0 11.8	60 52.1	S 8 43.5	72 53.4	S 13 13.0	0 51.2	N 15 31.0	59 20.0	S 8 28.4	270 00.6	N 22 25.6	54.5	Hadar	148 36.5	S 60 29.3	
16	58 40.5	58 11.1	N 0 12.7	75 51.7	S 8 42.4	87 54.0	S 13 12.3	15 53.2	N 15 31.2	74 22.2	S 8 28.3	284 32.3	N 22 16.2	54.4	Hamal	327 52.3	N 23 34.5	
17	73 42.9	73 11.3	N 0 13.7	90 51.2	S 8 41.3	102 54.5	S 13 11.7	30 55.1	N 15 31.4	89 24.4	S 8 28.2	299 04.1	N 22 06.7	54.4				
18	88 45.4	88 11.5	N 0 14.7	105 50.8	S 8 40.1	117 55.1	S 13 11.0	45 57.1	N 15 31.5	104 26.6	S 8 28.1	313 36.0	N 21 57.2	54.4	Kaus aust.	83 33.5	S 34 22.3	
19	103 47.9	103 11.7	N 0 15.7	120 50.3	S 8 39.0	132 55.7	S 13 10.3	60 59.1	N 15 31.7	119 28.8	S 8 28.0	328 08.0	N 21 47.5	54.4	Kochab	137 18.9	N 74 03.1	
20	118 50.3	118 11.9	N 0 16.7	135 49.9	S 8 37.9	147 56.3	S 13 09.7	76 01.0	N 15 31.8	134 31.0	S 8 27.8	342 40.0	N 21 37.8	54.4	Markab	13 30.9	N 15 19.9	
21	133 52.8	133 12.0	N 0 17.7	150 49.4	S 8 36.8	162 56.9	S 13 09.0	91 03.0	N 15 32.0	149 33.1	S 8 27.7	357 12.1	N 21 28.0	54.4	Menkar	314 07.1	N 4 11.0	
22	148 55.3	148 12.2	N 0 18.7	165 49.0	S 8 35.6	177 57.5	S 13 08.3	106 05.0	N 15 32.1	164 35.3	S 8 27.6	11 44.3	N 21 18.1	54.4	Menkent	147 58.1	S 36 29.3	
23	163 57.7	163 12.4	N 0 19.7	180 48.5	S 8 34.5	192 58.1	S 13 07.7	121 06.9	N 15 32.3	179 37.5	S 8 27.5	26 16.6	N 21 08.1	54.4				
21 00	179 00.2	178 12.6	N 0 20.6	195 48.1	S 8 33.4	207 58.7	S 13 07.0	136 08.9	N 15 32.4	194 39.7	S 8 27.4	40 49.0	N 20 58.0	54.3	Miaplacidus	221 37.8	S 69 49.1	
01	194 02.7	193 12.8	N 0 21.6	210 47.6	S 8 32.2	222 59.2	S 13 06.3	151 10.9	N 15 32.6	209 41.9	S 8 27.3	55 21.4	N 20 47.9	54.3	Mirfak	308 29.5	N 49 56.9	
02	209 05.1	208 13.0	N 0 22.6	225 47.2	S 8 31.1	237 59.8	S 13 05.7	166 12.8										

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	MARZO	19
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'			
22 00	179 59.3	178 17.1	N 0 44.3	195 37.5	S 8 06.1	208 12.8	S 12 51.0	136 56.0	N 15 36.1	195 32.2	S 8 24.8	30 07.9	N 16 33.1	54.1	NOME	360	- AR	Dec.
01	195 01.8	193 17.3	N 0 45.3	210 37.0	S 8 05.0	223 13.4	S 12 50.3	151 58.0	N 15 36.3	210 34.4	S 8 24.7	44 42.1	N 16 21.2	54.1	Acamar	315 12.5	S 40 12.7	
02	210 04.3	208 17.5	N 0 46.3	225 36.6	S 8 03.8	238 14.0	S 12 49.6	166 59.9	N 15 36.4	225 36.6	S 8 24.6	59 16.3	N 16 09.3	54.1	Achernar	335 21.2	S 57 07.0	
03	225 06.7	223 17.7	N 0 47.3	240 36.1	S 8 02.7	253 14.6	S 12 48.9	182 01.9	N 15 36.6	240 38.8	S 8 24.5	73 50.6	N 15 57.2	54.1	Acruir	173 00.2	S 63 14.0	
04	240 09.2	238 17.8	N 0 48.3	255 35.7	S 8 01.6	268 15.2	S 12 48.3	197 03.9	N 15 36.8	255 41.0	S 8 24.4	88 24.9	N 15 45.2	54.1	Adhara	255 06.3	S 29 00.5	
05	255 11.7	253 18.0	N 0 49.3	270 35.3	S 8 00.4	283 15.8	S 12 47.6	212 05.8	N 15 36.9	270 43.1	S 8 24.2	102 59.3	N 15 33.0	54.1	Aldebaran	290 40.5	N 16 33.4	
06	270 14.1	268 18.2	N 0 50.2	285 34.8	S 7 59.3	298 16.4	S 12 46.9	227 07.8	N 15 37.1	285 45.3	S 8 24.1	117 33.8	N 15 20.8	54.1				
07	285 16.6	283 18.4	N 0 51.2	300 34.4	S 7 58.1	313 17.0	S 12 46.3	242 09.7	N 15 37.2	300 47.5	S 8 24.0	132 08.3	N 15 08.6	54.1	Alioth	166 13.0	N 55 49.6	
08	300 19.0	298 18.6	N 0 52.2	315 34.0	S 7 57.0	328 17.6	S 12 45.6	257 11.7	N 15 37.4	315 49.7	S 8 23.9	146 42.9	N 14 56.3	54.1	Alkaid	152 52.1	N 49 11.3	
09	315 21.5	313 18.8	N 0 53.2	330 33.5	S 7 55.9	343 18.2	S 12 44.9	272 13.7	N 15 37.5	330 51.9	S 8 23.8	161 17.5	N 14 43.9	54.1	Alnair	27 34.1	S 46 50.7	
10	330 24.0	328 19.0	N 0 54.2	345 33.1	S 7 54.7	358 18.7	S 12 44.2	287 15.6	N 15 37.7	345 54.1	S 8 23.7	175 52.2	N 14 31.5	54.0	Alnilam	275 38.4	S 1 11.3	
11	345 26.4	343 19.2	N 0 55.2	0 32.6	S 7 53.6	13 19.3	S 12 43.6	302 17.6	N 15 37.8	0 56.3	S 8 23.6	190 26.9	N 14 19.1	54.0	Alphard	217 48.2	S 8 45.9	
12	0 28.9	358 19.3	N 0 56.2	15 32.2	S 7 52.4	28 19.9	S 12 42.9	317 19.5	N 15 38.0	15 58.5	S 8 23.5	205 01.7	N 14 06.5	54.0				
13	15 31.4	13 19.5	N 0 57.1	30 31.8	S 7 51.3	43 20.5	S 12 42.2	332 21.5	N 15 38.1	31 00.6	S 8 23.4	219 36.6	N 13 54.0	54.0	Alphecca	126 04.1	N 26 37.7	
14	30 33.8	28 19.7	N 0 58.1	45 31.3	S 7 50.1	58 21.1	S 12 41.5	347 23.5	N 15 38.3	46 02.8	S 8 23.3	234 11.5	N 13 41.3	54.0	Alpheratz	357 35.8	N 29 13.3	
15	45 36.3	43 19.9	N 0 59.1	60 30.9	S 7 49.0	73 21.7	S 12 40.9	2 25.4	N 15 38.5	61 05.0	S 8 23.2	248 46.4	N 13 28.7	54.0	Altair	62 00.8	N 8 55.7	
16	60 38.8	58 20.1	N 1 00.1	75 30.5	S 7 47.8	88 22.3	S 12 40.2	17 27.4	N 15 38.6	76 07.2	S 8 23.1	263 21.4	N 13 16.0	54.0	Ankaa	353 08.2	S 42 10.6	
17	75 41.2	73 20.3	N 1 01.1	90 30.0	S 7 46.7	103 22.9	S 12 39.5	32 29.3	N 15 38.8	91 09.4	S 8 22.9	277 56.5	N 13 03.2	54.0	Antares	112 16.5	S 26 29.1	
18	90 43.7	88 20.5	N 1 02.1	105 29.6	S 7 45.6	118 23.5	S 12 38.9	47 31.3	N 15 38.9	106 11.6	S 8 22.8	292 31.6	N 12 50.4	54.0				
19	105 46.2	103 20.7	N 1 03.1	120 29.2	S 7 44.4	133 24.1	S 12 38.2	62 33.3	N 15 39.1	121 13.8	S 8 22.7	307 06.7	N 12 37.5	54.0	Arcturus	145 48.3	N 19 03.2	
20	120 48.6	118 20.8	N 1 04.0	135 28.7	S 7 43.3	148 24.7	S 12 37.5	77 35.2	N 15 39.2	136 16.0	S 8 22.6	321 41.9	N 12 24.6	54.0	Atria	107 11.3	S 69 04.0	
21	135 51.1	133 21.0	N 1 05.0	150 28.3	S 7 42.1	163 25.3	S 12 36.8	92 37.2	N 15 39.4	151 18.2	S 8 22.5	336 17.2	N 12 11.7	54.0	Avior	234 14.7	S 59 35.4	
22	150 53.5	148 21.2	N 1 06.0	165 27.9	S 7 41.0	178 25.9	S 12 36.1	107 39.1	N 15 39.5	166 20.3	S 8 22.4	350 52.5	N 11 58.7	54.0	Bellatrix	278 23.6	N 6 22.2	
23	165 56.0	163 21.4	N 1 07.0	180 27.4	S 7 39.8	193 26.5	S 12 35.5	122 41.1	N 15 39.7	181 22.5	S 8 22.3	5 27.8	N 11 45.6	54.0	Betelgeuse	270 52.8	N 7 24.6	
23 00	180 58.5	178 21.6	N 1 08.0	195 27.0	S 7 38.7	208 27.1	S 12 34.8	137 43.0	N 15 39.8	196 24.7	S 8 22.2	20 03.2	N 11 32.5	54.0	Canopus	263 52.6	S 52 42.8	
01	196 00.9	193 21.8	N 1 09.0	210 26.6	S 7 37.5	223 27.7	S 12 34.1	152 45.0	N 15 40.0	211 26.9	S 8 22.1	34 38.6	N 11 19.4	54.0	Capella	280 23.0	N 46 01.5	
02	211 03.4	208 22.0	N 1 10.0	225 26.1	S 7 36.4	238 28.3	S 12 33.4	167 47.0	N 15 40.2	226 29.1	S 8 22.0	49 14.1	N 11 06.3	54.0	Castor	245 57.8	N 31 50.2	
03	226 05.9	223 22.2	N 1 10.9	240 25.7	S 7 35.2	253 28.9	S 12 32.8	182 48.9	N 15 40.3	241 31.3	S 8 21.9	63 49.9	N 10 53.1	54.0	Deneb	49 26.6	N 45 21.7	
04	241 08.3	238 22.4	N 1 11.9	255 25.3	S 7 34.1	268 29.5	S 12 32.1	197 50.9	N 15 40.5	256 33.5	S 8 21.8	78 25.1	N 10 39.8	54.0	Denebola	182 25.3	N 14 26.1	
05	256 10.8	253 22.5	N 1 12.9	270 24.9	S 7 32.9	283 30.1	S 12 31.4	212 52.8	N 15 40.6	271 35.7	S 8 21.6	93 00.7	N 10 26.5	54.0				
06	271 13.3	268 22.7	N 1 13.9	285 24.4	S 7 31.8	298 30.7	S 12 30.7	227 54.8	N 15 40.8	286 37.9	S 8 21.5	107 36.4	N 10 13.2	54.0	Diphda	348 48.3	S 17 51.4	
07	286 15.7	283 22.9	N 1 14.9	300 24.0	S 7 30.6	313 31.2	S 12 30.1	242 56.7	N 15 40.9	301 40.0	S 8 21.4	122 12.0	N 9 59.9	54.0	Dubhe	193 41.1	N 61 37.2	
08	301 18.2	298 23.1	N 1 15.9	315 23.6	S 7 29.5	328 31.8	S 12 29.4	257 58.7	N 15 41.1	316 42.2	S 8 21.3	136 47.7	N 9 46.5	54.0	Elnath	278 02.8	N 28 37.7	
09	316 20.6	313 23.3	N 1 16.8	330 23.1	S 7 28.3	343 32.4	S 12 28.7	273 00.7	N 15 41.2	331 44.4	S 8 21.2	151 23.5	N 9 33.1	54.0	Etamin	90 42.5	N 51 28.7	
10	331 23.1	328 23.5	N 1 17.8	345 22.7	S 7 27.2	358 33.0	S 12 28.0	288 02.6	N 15 41.4	346 46.6	S 8 21.1	165 59.2	N 9 19.6	54.0	Enif	33 39.7	N 9 58.9	
11	346 25.6	343 23.7	N 1 18.8	0 22.3	S 7 26.0	13 33.6	S 12 27.4	303 04.6	N 15 41.6	1 48.8	S 8 21.0	180 35.0	N 9 06.1	54.0				
12	1 28.0	358 23.9	N 1 19.8	15 21.8	S 7 24.9	28 34.2	S 12 26.7	318 06.5	N 15 41.7	16 51.0	S 8 20.9	195 10.9	N 8 52.6	54.0	Fomalhaut	15 15.6	S 29 29.8	
13	16 30.5	13 24.1	N 1 20.8	30 21.4	S 7 23.7	43 34.8	S 12 26.0	333 08.5	N 15 41.9	31 53.2	S 8 20.8	209 46.7	N 8 39.0	54.0	Gacrux	171 51.9	S 57 14.9	
14	31 33.0	28 24.2	N 1 21.8	45 21.0	S 7 22.5	58 35.4	S 12 25.3	348 10.4	N 15 42.0	46 55.4	S 8 20.7	224 22.6	N 8 25.4	54.0	Gienah	175 44.0	S 17 40.7	
15	46 35.4	43 24.4	N 1 22.8	60 20.6	S 7 21.4	73 36.0	S 12 24.6	3 12.4	N 15 42.2	61 57.6	S 8 20.6	238 58.6	N 8 11.8	54.0	Hadar	148 36.5	S 60 29.3	
16	61 37.9	58 24.6	N 1 23.7	75 20.1	S 7 20.2	88 36.6	S 12 24.0	18 14.4	N 15 42.3	76 59.8	S 8 20.5	253 34.5	N 7 58.2	54.0	Hamal	327 52.3	N 23 34.5	
17	76 40.4	73 24.8	N 1 24.7	90 19.7	S 7 19.1	103 37.2	S 12 23.3	33 16.3	N 15 42.5	92 01.9	S 8 20.3	268 10.5	N 7 44.5	54.0				
18	91 42.8	88 25.0	N 1 25.7	105 19.3	S 7 17.9	118 37.8	S 12 22.6	48 18.3	N 15 42.6	107 04.1	S 8 20.2	282 46.5	N 7 30.8	54.0	Kaus aust.	83 33.5	S 34 22.3	
19	106 45.3	103 25.2	N 1 26.7	120 18.9	S 7 16.8	133 38.4	S 12 21.9	63 20.2	N 15 42.8	122 06.3	S 8 20.1	297 22.6	N 7 17.1	54.0	Kochab	137 18.9	N 74 03.1	
20	121 47.8	118 25.4	N 1 27.7	135 18.4	S 7 15.6	148 39.0	S 12 21.2	78 22.2	N 15 42.9	137 08.5	S 8 20.0	311 58.6	N 7 03.3	54.0	Markab	13 30.9	N 15 19.9	
21	136 50.2	133 25.6	N 1 28.7	150 18.0	S 7 14.5	163 39.6	S 12 20.6	93 24.1	N 15 43.1	152 10.7	S 8 19.9	326 34.7	N 6 49.5	54.0	Menkar	314 07.1	N 4 11.0	
22	151 52.7	148 25.8	N 1 29.6	165 17.6	S 7 13.3	178 40.2	S 12 19.9	108 26.1	N 15 43.3	167 12.9	S 8 19.8	341 10.8	N 6 35.7	54.0	Menkent	147 58.1	S 36 29.3	
23	166 55.1	163 25.9	N 1 30.6	180 17.2	S 7 12.2	193 40.8	S 12 19.2	123 28.0	N 15 43.4	182 15.1	S 8 19.7	355 47.0	N 6 21.9	54.0				
24 00	181 57.6	178 26.1	N 1 31.6	195 16.7	S 7 11.0	208 41.4	S 12 18.5	138 30.0	N 15 43.6	197 17.3	S 8 19.6	10 23.1	N 6 08.0	54.0	Miaplacidus	221 37.8	S 69 49.1	
01	197 00.1	193 26.3	N 1 32.6	210 16.3	S 7 09.8	223 42.0	S 12 17.8	153 32.0	N 15 43.7	212 19.5	S 8 19.5	24 59.3	N 5 54.1	54.0	Mirfak	308 29.5	N 49 56.9	
02	212 02.5	2																

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	MARZO	22
d h	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	'			
25 00	182 56.7	178 30.7	N 1 55.2	195 06.6	S 6 43.1	208 55.8	S 12 02.1	139 16.9	N 15 47.3	198 09.8	S 8 17.0	0 54.8	N 0 30.4	54.1	NOME	360	- AR	Dec.
01	197 59.2	193 30.9	N 1 56.2	210 06.2	S 6 42.0	223 56.4	S 12 01.4	154 18.8	N 15 47.4	213 12.0	S 8 16.9	15 31.1	N 0 16.2	54.1	Acamar	315	12.6	S 40 12.7
02	213 01.7	208 31.1	N 1 57.2	225 05.8	S 6 40.8	238 57.1	S 12 00.7	169 20.7	N 15 47.6	228 14.2	S 8 16.8	30 07.5	N 0 02.0	54.1	Achernar	335	21.2	S 57 07.0
03	228 04.1	223 31.2	N 1 58.1	240 05.4	S 6 39.6	253 57.7	S 12 00.1	184 22.7	N 15 47.8	243 16.4	S 8 16.7	44 43.9	S 0 12.2	54.1	Acruis	173	00.2	S 63 14.0
04	243 06.6	238 31.4	N 1 59.1	255 04.9	S 6 38.5	268 58.3	S 11 59.4	199 24.7	N 15 47.9	258 18.6	S 8 16.6	59 20.2	S 0 26.4	54.1	Adhara	255	06.3	S 29 00.5
05	258 09.1	253 31.6	N 2 00.1	270 04.5	S 6 37.3	283 58.9	S 11 58.7	214 26.6	N 15 48.1	273 20.8	S 8 16.5	73 56.6	S 0 40.6	54.1	Aldebaran	290	40.5	N 16 33.4
06	273 11.5	268 31.8	N 2 01.1	285 04.1	S 6 36.1	298 59.5	S 11 58.0	229 28.6	N 15 48.2	288 23.0	S 8 16.4	88 32.9	S 0 54.8	54.1				
07	288 14.0	283 32.0	N 2 02.1	300 03.7	S 6 35.0	314 00.1	S 11 57.3	244 30.5	N 15 48.4	303 25.2	S 8 16.3	103 09.3	S 1 09.1	54.1	Alioth	166	13.0	N 55 49.6
08	303 16.5	298 32.2	N 2 03.0	315 03.3	S 6 33.8	329 00.7	S 11 56.6	259 32.5	N 15 48.5	318 27.4	S 8 16.1	117 45.6	S 1 23.3	54.1	Alkaid	152	52.1	N 49 11.4
09	318 18.9	313 32.4	N 2 04.0	330 02.8	S 6 32.6	344 01.3	S 11 55.9	274 34.4	N 15 48.7	333 29.6	S 8 16.0	132 21.9	S 1 37.5	54.1	Alnair	27	34.1	S 46 50.6
10	333 21.4	328 32.6	N 2 05.0	345 02.4	S 6 31.5	359 01.9	S 11 55.3	289 36.4	N 15 48.8	348 31.8	S 8 15.9	146 58.2	S 1 51.7	54.1	Alnilam	275	38.5	S 1 11.3
11	348 23.9	343 32.8	N 2 06.0	0 02.0	S 6 30.3	14 02.5	S 11 54.6	304 38.3	N 15 49.0	3 34.0	S 8 15.8	161 34.5	S 2 05.9	54.1	Alphard	217	48.2	S 8 45.9
12	3 26.3	358 32.9	N 2 07.0	15 01.6	S 6 29.1	29 03.1	S 11 53.9	319 40.3	N 15 49.2	18 36.1	S 8 15.7	176 10.8	S 2 20.1	54.1				
13	18 28.8	13 33.1	N 2 08.0	30 01.2	S 6 28.0	44 03.7	S 11 53.2	334 42.2	N 15 49.3	33 38.3	S 8 15.6	190 47.0	S 2 34.3	54.1	Alphecca	126	04.1	N 26 37.7
14	33 31.2	28 33.3	N 2 08.9	45 00.8	S 6 26.8	59 04.3	S 11 52.5	349 44.2	N 15 49.5	48 40.5	S 8 15.5	205 23.3	S 2 48.5	54.1	Alpheratz	357	35.8	N 29 13.3
15	48 33.7	43 33.5	N 2 09.9	60 00.4	S 6 25.6	74 04.9	S 11 51.8	4 46.1	N 15 49.6	63 42.7	S 8 15.4	219 59.5	S 3 02.6	54.1	Altair	62	00.7	N 8 55.7
16	63 36.2	58 33.7	N 2 10.9	74 59.9	S 6 24.4	89 05.5	S 11 51.1	19 48.1	N 15 49.8	78 44.9	S 8 15.3	234 35.7	S 3 16.8	54.1	Ankaa	353	08.2	S 42 10.6
17	78 38.6	73 33.9	N 2 11.9	89 59.5	S 6 23.3	104 06.1	S 11 50.4	34 50.0	N 15 49.9	93 47.1	S 8 15.2	249 11.9	S 3 31.0	54.2	Antares	112	16.5	S 26 29.1
18	93 41.1	88 34.1	N 2 12.9	104 59.1	S 6 22.1	119 06.7	S 11 49.7	49 52.0	N 15 50.1	108 49.3	S 8 15.1	263 48.1	S 3 45.1	54.2				
19	108 43.6	103 34.3	N 2 13.8	119 58.7	S 6 20.9	134 07.3	S 11 49.1	64 53.9	N 15 50.2	123 51.5	S 8 15.0	278 24.2	S 3 59.3	54.2	Arcturus	145	48.2	N 19 03.2
20	123 46.0	118 34.5	N 2 14.8	134 58.3	S 6 19.8	149 07.9	S 11 48.4	79 55.9	N 15 50.4	138 53.7	S 8 14.9	293 00.3	S 4 13.4	54.2	Atria	107	11.2	S 69 04.0
21	138 48.5	133 34.7	N 2 15.8	149 57.9	S 6 18.6	164 08.5	S 11 47.7	94 57.8	N 15 50.6	153 55.9	S 8 14.8	307 36.4	S 4 27.6	54.2	Avior	234	14.7	S 59 35.4
22	153 51.0	148 34.8	N 2 16.8	164 57.5	S 6 17.4	179 09.1	S 11 47.0	109 59.8	N 15 50.7	168 58.1	S 8 14.6	322 12.5	S 4 41.7	54.2	Bellatrix	278	23.7	N 6 22.2
23	168 53.4	163 35.0	N 2 17.8	179 57.0	S 6 16.2	194 09.8	S 11 46.3	125 01.7	N 15 50.9	184 00.3	S 8 14.5	336 48.6	S 4 55.8	54.2	Betelgeuse	270	52.8	N 7 24.6
26 00	183 55.9	178 35.2	N 2 18.7	194 56.6	S 6 15.1	209 10.4	S 11 45.6	140 03.7	N 15 51.0	199 02.4	S 8 14.4	351 24.6	S 5 09.9	54.2	Canopus	263	52.7	S 52 42.8
01	198 58.3	193 35.4	N 2 19.7	209 56.2	S 6 13.9	224 11.0	S 11 44.9	155 05.6	N 15 51.2	214 04.6	S 8 14.3	6 00.6	S 5 23.9	54.2	Capella	280	23.0	N 46 01.5
02	214 00.8	208 35.6	N 2 20.7	224 55.8	S 6 12.7	239 11.6	S 11 44.2	170 07.6	N 15 51.3	229 06.8	S 8 14.2	20 36.6	S 5 38.0	54.2	Castor	245	57.8	N 31 50.2
03	229 03.3	223 35.8	N 2 21.7	239 55.4	S 6 11.6	254 12.2	S 11 43.5	185 09.5	N 15 51.5	244 09.0	S 8 14.1	35 12.5	S 5 52.0	54.2	Deneb	49	26.5	N 45 21.7
04	244 05.7	238 36.0	N 2 22.7	254 55.0	S 6 10.4	269 12.8	S 11 42.8	200 11.5	N 15 51.6	259 11.2	S 8 14.0	49 48.4	S 6 06.1	54.2	Denebola	182	25.3	N 44 26.1
05	259 08.2	253 36.2	N 2 23.6	269 54.6	S 6 09.2	284 13.4	S 11 42.2	215 13.4	N 15 51.8	274 13.4	S 8 13.9	64 24.3	S 6 20.1	54.3				
06	274 10.7	268 36.4	N 2 24.6	284 54.2	S 6 08.0	299 14.0	S 11 41.5	230 15.4	N 15 52.0	289 15.6	S 8 13.8	79 00.2	S 6 34.1	54.3	Diphda	348	48.3	S 17 51.4
07	289 13.1	283 36.5	N 2 25.6	299 53.7	S 6 06.9	314 14.6	S 11 40.8	245 17.3	N 15 52.1	304 17.8	S 8 13.7	93 36.0	S 6 48.0	54.3	Dubhe	193	41.1	N 61 37.2
08	304 15.6	298 36.7	N 2 26.6	314 53.3	S 6 05.7	329 15.2	S 11 40.1	260 19.3	N 15 52.3	319 20.0	S 8 13.6	108 11.8	S 7 02.0	54.3	Elnath	278	02.8	N 28 37.7
09	319 18.1	313 36.9	N 2 27.6	329 52.9	S 6 04.5	344 15.8	S 11 39.4	275 21.2	N 15 52.4	334 22.2	S 8 13.5	122 47.5	S 7 15.9	54.3	Etamin	90	42.5	N 51 28.7
10	334 20.5	328 37.1	N 2 28.5	344 52.5	S 6 03.3	359 16.4	S 11 38.7	290 23.2	N 15 52.6	349 24.4	S 8 13.4	137 23.2	S 7 29.8	54.3	Enif	33	39.7	N 9 58.9
11	349 23.0	343 37.3	N 2 29.5	359 52.1	S 6 02.2	14 17.0	S 11 38.0	305 25.1	N 15 52.7	4 26.6	S 8 13.3	151 58.9	S 7 43.7	54.3				
12	4 25.5	358 37.5	N 2 30.5	14 51.7	S 6 01.0	29 17.7	S 11 37.3	320 27.1	N 15 52.9	19 28.8	S 8 13.2	166 34.5	S 7 57.6	54.3	Fomalhaut	15	15.6	S 29 29.7
13	19 27.9	13 37.7	N 2 31.5	29 51.3	S 5 59.8	44 18.3	S 11 36.6	335 29.0	N 15 53.0	34 30.9	S 8 13.0	181 10.1	S 8 11.4	54.3	Gacrux	171	51.9	S 57 14.9
14	34 30.4	28 37.9	N 2 32.5	44 50.9	S 5 58.6	59 18.9	S 11 35.9	350 30.9	N 15 53.2	49 33.1	S 8 12.9	195 45.7	S 8 25.3	54.3	Gienah	175	44.0	S 17 40.7
15	49 32.8	43 38.1	N 2 33.4	59 50.5	S 5 57.5	74 19.5	S 11 35.2	5 32.9	N 15 53.4	64 35.3	S 8 12.8	210 21.2	S 8 39.1	54.4	Hadar	148	36.4	S 60 29.3
16	64 35.3	58 38.3	N 2 34.4	74 50.1	S 5 56.3	89 20.1	S 11 34.5	20 34.8	N 15 53.5	79 37.5	S 8 12.7	224 56.7	S 8 52.8	54.4	Hamal	327	52.3	N 23 34.5
17	79 37.8	73 38.4	N 2 35.4	89 49.7	S 5 55.1	104 20.7	S 11 33.8	35 36.8	N 15 53.7	94 39.7	S 8 12.6	239 32.1	S 9 06.6	54.4				
18	94 40.2	88 38.6	N 2 36.4	104 49.2	S 5 53.9	119 21.3	S 11 33.1	50 38.7	N 15 53.8	109 41.9	S 8 12.5	254 07.5	S 9 20.3	54.4	Kaus aust.	83	33.4	S 34 22.3
19	109 42.7	103 38.8	N 2 37.3	119 48.8	S 5 52.7	134 21.9	S 11 32.5	65 40.7	N 15 54.0	124 44.1	S 8 12.4	268 42.8	S 9 33.9	54.4	Kochab	137	18.8	N 74 03.1
20	124 45.2	118 39.0	N 2 38.3	134 48.4	S 5 51.6	149 22.5	S 11 31.8	80 42.6	N 15 54.1	139 46.3	S 8 12.3	283 18.1	S 9 47.6	54.4	Markab	13	30.9	N 15 19.9
21	139 47.6	133 39.2	N 2 39.3	149 48.0	S 5 50.4	164 23.1	S 11 31.1	95 44.6	N 15 54.3	154 48.5	S 8 12.2	297 53.4	S 10 01.2	54.4	Menkar	314	07.1	N 4 11.0
22	154 50.1	148 39.4	N 2 40.3	164 47.6	S 5 49.2	179 23.7	S 11 30.4	110 46.5	N 15 54.4	169 50.7	S 8 12.1	312 28.6	S 10 14.8	54.4	Menkent	147	58.1	S 36 29.4
23	169 52.6	163 39.6	N 2 41.3	179 47.2	S 5 48.0	194 24.4	S 11 29.7	125 48.5	N 15 54.6	184 52.9	S 8 12.0	327 03.7	S 10 28.3	54.4				
27 00	184 55.0	178 39.8	N 2 42.2	194 46.8	S 5 46.8	209 25.0	S 11 29.0	140 50.4	N 15 54.8	199 55.1	S 8 11.9	341 38.8	S 10 41.9	54.5	Miaplacidus	221	37.8	S 69 49.2
01	199 57.5	193 40.0	N 2 43.2	209 46.4	S 5 45.7	224 25.6	S 11 28.3	155 52.3	N 15 54.9	214 57.3	S 8 11.8	356 13.9	S 10 55.4	54.5	Mirfak	308	29.6	N 49 56.9
02	214 59.9	208 40.1	N 2 44.2															

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	MARZO	25
d h	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	'	NOME	360	- AR	Dec.
28 00	185 54.2	178 44.3	N 3 05.7	194 37.1	S 5 18.5	209 39.6	S 11 12.3	141 37.1	N 15 58.5	200 47.7	S 8 09.3	331 23.8	S 15 53.8	54.8				
01	200 56.6	193 44.5	N 3 06.7	209 36.7	S 5 17.3	224 40.3	S 11 11.6	156 39.0	N 15 58.7	215 49.9	S 8 09.2	345 57.4	S 16 06.1	54.8	Acamar	315 12.6	S 40 12.7	
02	215 59.1	208 44.7	N 3 07.6	224 36.3	S 5 16.1	239 40.9	S 11 10.9	171 40.9	N 15 58.8	230 52.1	S 8 09.1	0 30.9	S 16 18.5	54.8	Achernar	335 21.2	S 57 07.0	
03	231 01.5	223 44.9	N 3 08.6	239 35.9	S 5 14.9	254 41.5	S 11 10.2	186 42.9	N 15 59.0	245 54.3	S 8 09.0	15 04.3	S 16 30.7	54.8	AcruX	173 00.2	S 63 14.0	
04	246 04.0	238 45.1	N 3 09.6	254 35.5	S 5 13.7	269 42.1	S 11 09.5	201 44.8	N 15 59.1	260 56.5	S 8 08.9	29 37.6	S 16 42.9	54.8	Adhara	255 06.3	S 29 00.5	
05	261 06.5	253 45.3	N 3 10.6	269 35.1	S 5 12.5	284 42.7	S 11 08.5	216 46.8	N 15 59.3	275 58.7	S 8 08.8	44 10.8	S 16 55.0	54.9	Aldebaran	290 40.5	N 16 33.4	
06	276 08.9	268 45.4	N 3 11.5	284 34.7	S 5 11.3	299 43.3	S 11 08.1	231 48.7	N 15 59.4	291 00.9	S 8 08.7	58 44.0	S 17 07.1	54.9				
07	291 11.4	283 45.6	N 3 12.5	299 34.3	S 5 10.2	314 43.9	S 11 07.4	246 50.7	N 15 59.6	306 03.1	S 8 08.6	73 17.1	S 17 19.1	54.9	Alioth	166 13.0	N 55 49.6	
08	306 13.9	298 45.8	N 3 13.5	314 33.9	S 5 09.0	329 44.6	S 11 06.7	261 52.6	N 15 59.7	321 05.3	S 8 08.5	87 50.1	S 17 31.0	54.9	Alkaid	152 52.1	N 49 11.4	
09	321 16.3	313 46.0	N 3 14.5	329 33.5	S 5 07.8	344 45.2	S 11 06.0	276 54.5	N 15 59.9	336 07.5	S 8 08.4	102 23.0	S 17 42.9	54.9	Alnair	27 34.1	S 46 50.6	
10	336 18.8	328 46.2	N 3 15.4	344 33.1	S 5 06.6	359 45.8	S 11 05.3	291 56.5	N 16 00.1	351 09.7	S 8 08.3	116 55.9	S 17 54.7	54.9	Alnilam	275 38.5	S 1 11.3	
11	351 21.3	343 46.4	N 3 16.4	359 32.7	S 5 05.4	14 46.4	S 11 04.6	306 58.4	N 16 00.2	6 11.9	S 8 08.2	131 28.6	S 18 06.4	54.9	Alphard	217 48.2	S 8 45.9	
12	6 23.7	358 46.6	N 3 17.4	14 32.3	S 5 04.2	29 47.0	S 11 03.8	322 00.4	N 16 00.4	21 14.1	S 8 08.1	146 01.3	S 18 18.1	55.0				
13	21 26.2	13 46.8	N 3 18.4	29 31.9	S 5 03.0	44 47.6	S 11 03.1	337 02.3	N 16 00.5	36 16.3	S 8 07.9	160 33.9	S 18 29.7	55.0	Alphecca	126 04.1	N 26 37.7	
14	36 28.7	28 47.0	N 3 19.3	44 31.5	S 5 01.8	59 48.3	S 11 02.4	352 04.2	N 16 00.7	51 18.5	S 8 07.8	175 06.5	S 18 41.2	55.0	Alpheratz	357 35.8	N 29 13.3	
15	51 31.1	43 47.1	N 3 20.3	59 31.1	S 5 00.6	74 48.9	S 11 01.7	7 06.2	N 16 00.8	66 20.7	S 8 07.7	189 38.9	S 18 52.6	55.0	Altair	62 00.7	N 8 55.7	
16	66 33.6	58 47.3	N 3 21.3	74 30.7	S 4 59.5	89 49.5	S 11 01.0	22 08.1	N 16 01.0	81 22.8	S 8 07.6	204 11.3	S 19 04.0	55.0	Ankaa	353 08.2	S 42 10.6	
17	81 36.0	73 47.5	N 3 22.3	89 30.3	S 4 58.3	104 50.1	S 11 00.3	37 10.1	N 16 01.2	96 25.0	S 8 07.5	218 43.5	S 19 15.3	55.1	Antares	112 16.5	S 26 29.2	
18	96 38.5	88 47.7	N 3 23.2	104 29.9	S 4 57.1	119 50.7	S 10 59.6	52 12.0	N 16 01.3	111 27.2	S 8 07.4	233 15.7	S 19 26.5	55.1				
19	111 41.0	103 47.9	N 3 24.2	119 29.5	S 4 55.9	134 51.3	S 10 58.9	67 13.9	N 16 01.5	126 29.4	S 8 07.3	247 47.8	S 19 37.7	55.1	Arcturus	145 48.2	N 19 03.2	
20	126 43.4	118 48.1	N 3 25.2	134 29.1	S 4 54.7	149 51.9	S 10 58.2	82 15.9	N 16 01.6	141 31.6	S 8 07.2	262 19.8	S 19 48.7	55.1	Atria	107 11.2	S 69 04.0	
21	141 45.9	133 48.3	N 3 26.1	149 28.7	S 4 53.5	164 52.6	S 10 57.5	97 17.8	N 16 01.8	156 33.8	S 8 07.1	276 51.7	S 19 59.7	55.1	Avior	234 14.7	S 59 35.4	
22	156 48.4	148 48.5	N 3 27.1	164 28.3	S 4 52.3	179 53.2	S 10 56.8	112 19.8	N 16 01.9	171 36.0	S 8 07.0	291 23.6	S 20 10.6	55.1	Bellatrix	278 23.7	N 6 22.2	
23	171 50.8	163 48.7	N 3 28.1	179 27.9	S 4 51.1	194 53.8	S 10 56.1	127 21.7	N 16 02.1	186 38.2	S 8 06.9	305 55.3	S 20 21.4	55.2	Betelgeuse	270 52.8	N 7 24.6	
29 00	186 53.3	178 48.8	N 3 29.1	194 27.5	S 4 49.9	209 54.4	S 10 55.4	142 23.6	N 16 02.2	201 40.4	S 8 06.8	320 26.9	S 20 32.2	55.2	Canopus	263 52.7	S 52 42.8	
01	201 55.8	193 49.0	N 3 30.0	209 27.1	S 4 48.7	224 55.0	S 10 54.7	157 25.6	N 16 02.4	216 42.6	S 8 06.7	334 58.5	S 20 42.8	55.2	Capella	280 23.0	N 46 01.5	
02	216 58.2	208 49.2	N 3 31.0	224 26.7	S 4 47.5	239 55.7	S 10 54.0	172 27.5	N 16 02.6	231 44.8	S 8 06.6	349 30.0	S 20 53.4	55.2	Castor	245 57.8	N 31 50.2	
03	232 00.7	223 49.4	N 3 32.0	239 26.3	S 4 46.3	254 56.3	S 10 53.3	187 29.5	N 16 02.7	246 47.0	S 8 06.5	4 01.4	S 21 03.9	55.2	Deneb	49 26.5	N 45 21.7	
04	247 03.2	238 49.6	N 3 33.0	254 25.9	S 4 45.2	269 56.9	S 10 52.6	202 31.4	N 16 02.9	261 49.2	S 8 06.4	18 32.6	S 21 14.2	55.3	Denebola	182 25.3	N 44 26.1	
05	262 05.6	253 49.8	N 3 33.9	269 25.5	S 4 44.0	284 57.5	S 10 51.9	217 33.3	N 16 03.0	276 51.4	S 8 06.3	33 03.8	S 21 24.6	55.3				
06	277 08.1	268 50.0	N 3 34.9	284 25.1	S 4 42.8	299 58.1	S 10 51.2	232 35.3	N 16 03.2	291 53.6	S 8 06.2	47 34.9	S 21 34.8	55.3	Diphda	348 48.3	S 17 51.4	
07	292 10.5	283 50.2	N 3 35.9	299 24.7	S 4 41.6	314 58.7	S 10 50.5	247 37.2	N 16 03.3	306 55.8	S 8 06.1	62 05.9	S 21 44.9	55.3	Dubhe	193 41.1	N 61 37.3	
08	307 13.0	298 50.4	N 3 36.8	314 24.3	S 4 40.4	329 59.4	S 10 49.8	262 39.1	N 16 03.5	321 58.0	S 8 05.9	76 36.9	S 21 54.9	55.3	Elnath	278 02.8	N 28 37.7	
09	322 15.5	313 50.5	N 3 37.8	329 24.0	S 4 39.2	345 00.0	S 10 49.1	277 41.1	N 16 03.6	337 00.2	S 8 05.8	91 07.7	S 22 04.8	55.4	Etamin	90 42.4	N 51 28.7	
10	337 17.9	328 50.7	N 3 38.8	344 23.6	S 4 38.0	0 00.6	S 10 48.4	292 43.0	N 16 03.8	352 02.4	S 8 05.7	105 38.4	S 22 14.7	55.4	Enif	33 39.7	N 9 58.9	
11	352 20.4	343 50.9	N 3 39.8	359 23.2	S 4 36.8	15 01.2	S 10 47.7	307 45.0	N 16 04.0	7 04.6	S 8 05.6	120 09.0	S 22 24.4	55.4				
12	7 22.9	358 51.1	N 3 40.7	14 22.8	S 4 35.6	30 01.8	S 10 47.0	322 46.9	N 16 04.1	22 06.8	S 8 05.5	134 39.6	S 22 34.1	55.4	Fomalhaut	15 15.6	S 29 29.7	
13	22 25.3	13 51.3	N 3 41.7	29 22.4	S 4 34.4	45 02.5	S 10 46.3	337 48.8	N 16 04.3	37 09.0	S 8 05.4	149 10.0	S 22 43.6	55.4	Gacrux	171 51.9	S 57 15.0	
14	37 27.8	28 51.5	N 3 42.7	44 22.0	S 4 33.2	60 03.1	S 10 45.6	352 50.8	N 16 04.4	52 11.2	S 8 05.3	163 40.4	S 22 53.1	55.5	Gienah	175 44.0	S 17 40.7	
15	52 30.3	43 51.7	N 3 43.7	59 21.6	S 4 32.0	75 03.7	S 10 44.8	7 52.7	N 16 04.6	67 13.4	S 8 05.2	178 10.6	S 23 02.4	55.5	Hadar	148 36.4	S 60 29.3	
16	67 32.7	58 51.9	N 3 44.6	74 21.2	S 4 30.8	90 04.3	S 10 44.1	22 54.6	N 16 04.7	82 15.6	S 8 05.1	192 40.8	S 23 11.6	55.5	Hamal	327 52.3	N 23 34.5	
17	82 35.2	73 52.0	N 3 45.6	89 20.8	S 4 29.6	105 04.9	S 10 43.4	37 56.6	N 16 04.9	97 17.7	S 8 05.0	207 10.8	S 23 20.8	55.5				
18	97 37.6	88 52.2	N 3 46.6	104 20.4	S 4 28.4	120 05.5	S 10 42.7	52 58.5	N 16 05.1	112 19.9	S 8 04.9	221 40.8	S 23 29.8	55.5	Kaus aust.	83 33.4	S 34 22.3	
19	112 40.1	103 52.4	N 3 47.5	119 20.0	S 4 27.2	135 06.2	S 10 42.0	68 00.5	N 16 05.2	127 22.1	S 8 04.8	236 10.6	S 23 38.7	55.6	Kochab	137 18.8	N 74 03.1	
20	127 42.6	118 52.6	N 3 48.5	134 19.6	S 4 26.0	150 06.8	S 10 41.3	83 02.4	N 16 05.4	142 24.3	S 8 04.7	250 40.4	S 23 47.5	55.6	Markab	13 30.9	N 15 19.9	
21	142 45.0	133 52.8	N 3 49.5	149 19.2	S 4 24.8	165 07.4	S 10 40.6	98 04.3	N 16 05.5	157 26.5	S 8 04.6	265 10.1	S 23 56.3	55.6	Menkar	314 07.1	N 4 11.0	
22	157 47.5	148 53.0	N 3 50.4	164 18.8	S 4 23.6	180 08.0	S 10 39.9	113 06.3	N 16 05.7	172 28.7	S 8 04.5	279 39.6	S 24 04.8	55.6	Menkent	147 58.1	S 36 29.4	
23	172 50.0	163 53.2	N 3 51.4	179 18.4	S 4 22.4	195 08.6	S 10 39.2	128 08.2	N 16 05.8	187 30.9	S 8 04.4	294 09.1	S 24 13.3	55.7				
30 00	187 52.4	178 53.4	N 3 52.4	194 18.0	S 4 21.3	210 09.3	S 10 38.5	143 10.1	N 16 06.0	202 33.1	S 8 04.3	308 38.5	S 24 21.7	55.7	Miaplacidus	221 37.9	S 69 49.2	
01	202 54.9	193 53.5	N 3 53.4	209 17.7	S 4 20.1	225 09.9	S 10 37.8	158 12.1	N 16 06.1	217 35.3	S 8 04.2	323 07.8	S 24 30.0	55.7	Mirfak	308 29.6	N 49	

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	MARZO	28
d h	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	'	'	'	'	'
31 00	188 51.6	178 57.9	N 4 15.6	194 08.7	S 3 52.4	210 24.2	S 10 21.5	143 56.6	N 16 09.7	203 25.9	S 8 01.8	295 55.0	S 27 05.7	56.3	NOME	360 - AR	Dec.	
01	203 54.0	193 58.0	N 4 16.6	209 08.3	S 3 51.2	225 24.8	S 10 20.7	158 58.5	N 16 09.9	218 28.1	S 8 01.6	310 22.1	S 27 10.8	56.3	Acamar	315 12.6	S 40 12.7	
02	218 56.5	208 58.2	N 4 17.6	224 07.9	S 3 50.0	240 25.4	S 10 20.0	174 00.4	N 16 10.1	233 30.3	S 8 01.5	324 49.0	S 27 15.9	56.3	Achernar	335 21.2	S 57 07.0	
03	233 59.0	223 58.4	N 4 18.5	239 07.5	S 3 48.8	255 26.1	S 10 19.3	189 02.4	N 16 10.2	248 32.5	S 8 01.4	339 15.9	S 27 20.7	56.4	Acruz	173 00.2	S 63 14.0	
04	249 01.4	238 58.6	N 4 19.5	254 07.1	S 3 47.6	270 26.7	S 10 18.6	204 04.3	N 16 10.4	263 34.7	S 8 01.3	353 42.7	S 27 25.4	56.4	Adhara	255 06.4	S 29 00.5	
05	264 03.9	253 58.8	N 4 20.5	269 06.7	S 3 46.4	285 27.3	S 10 17.9	219 06.2	N 16 10.5	278 36.9	S 8 01.2	8 09.4	S 27 30.0	56.4	Aldebaran	290 40.5	N 16 33.4	
06	279 06.4	268 59.0	N 4 21.4	284 06.4	S 3 45.2	300 27.9	S 10 17.2	234 08.2	N 16 10.7	293 39.1	S 8 01.1	22 36.1	S 27 34.4	56.4				
07	294 08.8	283 59.2	N 4 22.4	299 06.0	S 3 44.0	315 28.6	S 10 16.5	249 10.1	N 16 10.8	308 41.3	S 8 01.0	37 02.6	S 27 38.7	56.5	Alioth	166 13.0	N 55 49.6	
08	309 11.3	298 59.3	N 4 23.4	314 05.6	S 3 42.8	330 29.2	S 10 15.8	264 12.0	N 16 11.0	323 43.5	S 8 00.9	51 29.1	S 27 42.9	56.5	Alkaid	152 52.0	N 49 11.4	
09	324 13.8	313 59.5	N 4 24.3	329 05.2	S 3 41.6	345 29.8	S 10 15.0	279 14.0	N 16 11.1	338 45.7	S 8 00.8	65 55.5	S 27 46.8	56.5	Alnair	27 34.1	S 46 50.6	
10	339 16.2	328 59.7	N 4 25.3	344 04.8	S 3 40.4	0 30.4	S 10 14.3	294 15.9	N 16 11.3	353 47.9	S 8 00.7	80 21.8	S 27 50.6	56.5	Alnilam	275 38.5	S 1 11.3	
11	354 18.7	343 59.9	N 4 26.3	359 04.4	S 3 39.2	15 31.1	S 10 13.6	309 17.8	N 16 11.5	8 50.1	S 8 00.6	94 48.0	S 27 54.3	56.6	Alphard	217 48.2	S 8 45.9	
12	9 21.1	359 00.1	N 4 27.2	14 04.0	S 3 38.0	30 31.7	S 10 12.9	324 19.8	N 16 11.6	23 52.3	S 8 00.5	109 14.2	S 27 57.8	56.6				
13	24 23.6	14 00.3	N 4 28.2	29 03.6	S 3 36.8	45 32.3	S 10 12.2	339 21.7	N 16 11.8	38 54.5	S 8 00.4	123 40.3	S 28 01.2	56.6	Alphecca	126 04.0	N 26 37.7	
14	39 26.1	29 00.5	N 4 29.2	44 03.3	S 3 35.6	60 32.9	S 10 11.5	354 23.6	N 16 11.9	53 56.7	S 8 00.3	138 06.3	S 28 04.4	56.7	Alpheratz	357 35.8	N 29 13.3	
15	54 28.5	44 00.6	N 4 30.1	59 02.9	S 3 34.4	75 33.6	S 10 10.8	9 25.6	N 16 12.1	68 58.9	S 8 00.2	152 32.3	S 28 07.4	56.7	Altair	62 00.7	N 8 55.7	
16	69 31.0	59 00.8	N 4 31.1	74 02.5	S 3 33.2	90 34.2	S 10 10.0	24 27.5	N 16 12.2	84 01.1	S 8 00.1	166 58.1	S 28 10.3	56.7	Ankaa	353 08.2	S 42 10.6	
17	84 33.5	74 01.0	N 4 32.1	89 02.1	S 3 32.0	105 34.8	S 10 09.3	39 29.4	N 16 12.4	99 03.2	S 8 00.0	181 23.9	S 28 13.0	56.8	Antares	112 16.5	S 26 29.2	
18	99 35.9	89 01.2	N 4 33.0	104 01.7	S 3 30.8	120 35.4	S 10 08.6	54 31.4	N 16 12.6	114 05.4	S 7 59.9	195 49.7	S 28 15.6	56.8				
19	114 38.4	104 01.4	N 4 34.0	119 01.3	S 3 29.6	135 36.1	S 10 07.9	69 33.3	N 16 12.7	129 07.6	S 7 59.8	210 15.4	S 28 18.0	56.8	Arcturus	145 48.2	N 19 03.2	
20	129 40.9	119 01.6	N 4 35.0	134 00.9	S 3 28.4	150 36.7	S 10 07.2	84 35.2	N 16 12.9	144 09.8	S 7 59.7	224 41.0	S 28 20.3	56.8	Atria	107 11.1	S 69 04.0	
21	144 43.3	134 01.8	N 4 35.9	149 00.6	S 3 27.2	165 37.3	S 10 06.5	99 37.1	N 16 13.0	159 12.0	S 7 59.6	239 06.5	S 28 22.3	56.9	Avior	234 14.8	S 59 35.5	
22	159 45.8	149 01.9	N 4 36.9	164 00.2	S 3 25.9	180 37.9	S 10 05.8	114 39.1	N 16 13.2	174 14.2	S 7 59.5	253 32.0	S 28 24.2	56.9	Bellatrix	278 23.7	N 6 22.2	
23	174 48.2	164 02.1	N 4 37.9	178 59.8	S 3 24.7	195 38.6	S 10 05.0	129 41.0	N 16 13.3	189 16.4	S 7 59.4	267 57.5	S 28 26.0	56.9	Betelgeuse	270 52.9	N 7 24.6	
Apr 01	189 50.7	179 02.3	N 4 38.8	193 59.4	S 3 23.5	210 39.2	S 10 04.3	144 42.9	N 16 13.5	204 18.6	S 7 59.3	282 22.8	S 28 27.6	57.0	Canopus	263 52.7	S 52 42.8	
02	204 53.2	194 02.5	N 4 39.8	208 59.0	S 3 22.3	225 39.8	S 10 03.6	159 44.9	N 16 13.7	219 20.8	S 7 59.2	296 48.2	S 28 29.0	57.0	Capella	280 23.0	N 46 01.5	
03	219 55.6	209 02.7	N 4 40.7	223 58.6	S 3 21.1	240 40.5	S 10 02.9	174 46.8	N 16 13.8	234 23.0	S 7 59.0	311 13.4	S 28 30.3	57.0	Castor	245 57.8	N 31 50.2	
04	234 58.1	224 02.9	N 4 41.7	238 58.3	S 3 19.9	255 41.1	S 10 02.2	189 48.7	N 16 14.0	249 25.2	S 7 58.9	325 38.7	S 28 31.3	57.1	Deneb	49 26.5	N 45 21.7	
05	250 00.6	239 03.1	N 4 42.7	253 57.9	S 3 18.7	270 41.7	S 10 01.5	204 50.7	N 16 14.1	264 27.4	S 7 58.8	340 03.8	S 28 32.2	57.1	Denebola	182 25.3	N 44 26.1	
06	265 03.0	254 03.2	N 4 43.6	268 57.5	S 3 17.5	285 42.3	S 10 00.7	219 52.6	N 16 14.3	279 29.6	S 7 58.7	354 28.9	S 28 33.0	57.1				
07	280 05.5	269 03.4	N 4 44.6	283 57.1	S 3 16.3	300 43.0	S 10 00.0	234 54.5	N 16 14.4	294 31.8	S 7 58.6	8 54.0	S 28 33.6	57.1	Diphda	348 48.3	S 17 51.4	
08	295 08.0	284 03.6	N 4 45.6	298 56.7	S 3 15.1	315 43.6	S 9 59.3	249 56.4	N 16 14.6	309 34.0	S 7 58.5	23 19.0	S 28 34.0	57.2	Dubhe	193 41.2	N 61 37.3	
09	310 10.4	299 03.8	N 4 46.5	313 56.3	S 3 13.9	330 44.2	S 9 58.6	264 58.4	N 16 14.7	324 36.2	S 7 58.4	37 44.0	S 28 34.2	57.2	Elnath	278 02.8	N 28 37.7	
10	325 12.9	314 04.0	N 4 47.5	328 55.9	S 3 12.7	345 44.9	S 9 57.9	280 00.3	N 16 14.9	339 38.4	S 7 58.3	52 09.0	S 28 34.3	57.2	Etamin	90 42.4	N 51 28.7	
11	340 15.4	329 04.2	N 4 48.4	343 55.6	S 3 11.5	0 45.5	S 9 57.2	295 02.2	N 16 15.1	354 40.6	S 7 58.2	66 33.9	S 28 34.2	57.3	Enif	33 39.7	N 9 58.9	
12	355 17.8	344 04.4	N 4 49.4	358 55.2	S 3 10.2	15 46.1	S 9 56.4	310 04.2	N 16 15.2	9 42.8	S 7 58.1	80 58.7	S 28 33.9	57.3				
13	10 20.3	359 04.5	N 4 50.4	13 54.8	S 3 09.0	30 46.7	S 9 55.7	325 06.1	N 16 15.4	24 45.0	S 7 58.0	95 23.5	S 28 33.4	57.3	Fomalhaut	15 15.6	S 29 29.7	
14	25 22.7	14 04.7	N 4 51.3	28 54.4	S 3 07.8	45 47.4	S 9 55.0	340 08.0	N 16 15.5	39 47.2	S 7 57.9	109 48.3	S 28 32.8	57.4	Gacrux	171 51.9	S 57 15.0	
15	40 25.2	29 04.9	N 4 52.3	43 54.0	S 3 06.6	60 48.0	S 9 54.3	355 09.9	N 16 15.7	54 49.4	S 7 57.8	124 13.1	S 28 32.0	57.4	Gienah	175 44.0	S 17 40.7	
16	55 27.7	44 05.1	N 4 53.3	58 53.7	S 3 05.4	75 48.6	S 9 53.6	10 11.9	N 16 15.8	69 51.6	S 7 57.7	138 37.8	S 28 31.0	57.4	Hadar	148 36.4	S 60 29.3	
17	70 30.1	59 05.3	N 4 54.2	73 53.3	S 3 04.2	90 49.3	S 9 52.9	25 13.8	N 16 16.0	84 53.8	S 7 57.6	153 02.5	S 28 29.9	57.5	Hamal	327 52.3	N 23 34.5	
18	85 32.6	74 05.5	N 4 55.2	88 52.9	S 3 03.0	105 49.9	S 9 52.1	40 15.7	N 16 16.2	99 56.0	S 7 57.5	167 27.2	S 28 28.5	57.5				
19	100 35.1	89 05.6	N 4 56.1	103 52.5	S 3 01.8	120 50.5	S 9 51.4	55 17.7	N 16 16.3	114 58.2	S 7 57.4	181 51.8	S 28 27.0	57.5	Kaus aust.	83 33.4	S 34 22.3	
20	115 37.5	104 05.8	N 4 57.1	118 52.1	S 3 00.6	135 51.1	S 9 50.7	70 19.6	N 16 16.5	130 00.5	S 7 57.3	196 16.5	S 28 25.3	57.6	Kochab	137 18.8	N 74 03.1	
21	130 40.0	119 06.0	N 4 58.1	133 51.7	S 2 59.4	150 51.8	S 9 50.0	85 21.5	N 16 16.6	145 02.7	S 7 57.2	210 41.1	S 28 23.5	57.6	Markab	13 30.9	N 15 19.9	
22	145 42.5	134 06.2	N 4 59.0	148 51.4	S 2 58.1	165 52.4	S 9 49.3	100 23.4	N 16 16.8	160 04.9	S 7 57.1	225 05.6	S 28 21.4	57.6	Menkar	314 07.1	N 4 11.0	
23	160 44.9	149 06.4	N 5 00.0	163 51.0	S 2 56.9	180 53.0	S 9 48.5	115 25.4	N 16 16.9	175 07.1	S 7 57.0	239 30.2	S 28 19.2	57.7	Menkent	147 58.1	S 36 29.4	
02 00	190 49.9	179 06.8	N 5 01.9	193 50.2	S 2 54.5	210 54.3	S 9 47.1	145 29.2	N 16 17.3	205 11.5	S 7 56.8	268 19.3	S 28 14.3	57.7	Miaplacidus	221 37.9	S 69 49.2	
01	205 52.3	194 06.9	N 5 02.9	208 49.8	S 2 53.3	225 54.9	S 9 46.4	160 31.2	N 16 17.4	220 13.7	S 7 56.7	282 43.8	S 28 11.5	57.8	Mirfak	308 29.6	N 49 56.9	
02	220 54.8	209 07.1	N 5 03.8	223 49.5	S 2 52.1	240 55.5	S 9 45.7	175 33.1	N 16 17.6	235 15.9	S 7 56.6	297 08.3	S 28 08.6	57.8	Mizar	158 45.9		

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	MARZO	31
d h	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	'			
03 00	191 49.0	179 11.1	N 5 24.9	193 41.1	S 2 25.4	211 09.5	S 9 29.8	146 15.5	N 16 21.0	206 04.3	S 7 54.3	254 08.9	S 26 19.5	58.5	NOME	360	- AR	Dec.
01	206 51.5	194 11.3	N 5 25.9	208 40.7	S 2 24.2	226 10.1	S 9 29.1	161 17.4	N 16 21.2	221 06.5	S 7 54.2	268 33.7	S 26 12.6	58.6	Acamar	315 12.6	S 40 12.6	
02	221 53.9	209 11.5	N 5 26.8	223 40.3	S 2 23.0	241 10.7	S 9 28.3	176 19.3	N 16 21.3	236 08.7	S 7 54.1	282 58.5	S 26 05.4	58.6	Achernar	335 21.2	S 57 06.9	
03	236 56.4	224 11.7	N 5 27.8	238 40.0	S 2 21.8	256 11.4	S 9 27.6	191 21.2	N 16 21.5	251 10.9	S 7 54.0	297 23.4	S 25 58.1	58.6	AcruX	173 00.2	S 63 14.1	
04	251 58.9	239 11.9	N 5 28.7	253 39.6	S 2 20.5	271 12.0	S 9 26.9	206 23.2	N 16 21.6	266 13.1	S 7 53.9	311 48.2	S 25 50.6	58.7	Adhara	255 06.4	S 29 00.5	
05	267 01.3	254 12.1	N 5 29.7	268 39.2	S 2 19.3	286 12.6	S 9 26.2	221 25.1	N 16 21.8	281 15.3	S 7 53.8	326 13.2	S 25 42.9	58.7	Aldebaran	290 40.6	N 16 33.4	
06	282 03.8	269 12.2	N 5 30.7	283 38.8	S 2 18.1	301 13.3	S 9 25.5	236 27.0	N 16 21.9	296 17.5	S 7 53.7	340 38.1	S 25 35.1	58.7				
07	297 06.2	284 12.4	N 5 31.6	298 38.4	S 2 16.9	316 13.9	S 9 24.7	251 28.9	N 16 22.1	311 19.7	S 7 53.6	355 03.1	S 25 27.1	58.8	Alioth	166 13.0	N 55 49.6	
08	312 08.7	299 12.6	N 5 32.6	313 38.1	S 2 15.7	331 14.5	S 9 24.0	266 30.9	N 16 22.3	326 21.9	S 7 53.5	9 28.1	S 25 19.0	58.8	Alkaid	152 52.0	N 49 11.4	
09	327 11.2	314 12.8	N 5 33.5	328 37.7	S 2 14.5	346 15.2	S 9 23.3	281 32.8	N 16 22.4	341 24.1	S 7 53.4	23 53.2	S 25 10.6	58.8	Alnair	27 34.1	S 46 50.6	
10	342 13.6	329 13.0	N 5 34.5	343 37.3	S 2 13.3	1 15.8	S 9 22.6	296 34.7	N 16 22.6	356 26.3	S 7 53.3	38 18.3	S 25 02.1	58.9	Alnilam	275 38.5	S 1 11.3	
11	357 16.1	344 13.2	N 5 35.4	358 36.9	S 2 12.0	16 16.4	S 9 21.8	311 36.6	N 16 22.7	1 11 28.5	S 7 53.2	52 43.5	S 24 53.5	58.9	Alphard	217 48.2	S 8 45.9	
12	12 18.6	359 13.3	N 5 36.4	13 36.6	S 2 10.8	31 17.1	S 9 21.1	326 38.5	N 16 22.9	26 30.7	S 7 53.1	67 08.7	S 24 44.6	58.9				
13	27 21.0	14 13.5	N 5 37.3	28 36.2	S 2 09.6	46 17.7	S 9 20.4	341 40.5	N 16 23.0	41 32.9	S 7 53.0	81 33.9	S 24 35.6	59.0	Alphecca	126 04.0	N 26 37.7	
14	42 23.5	29 13.7	N 5 38.3	43 35.8	S 2 08.4	61 18.3	S 9 19.7	356 42.4	N 16 23.2	56 35.1	S 7 52.9	95 59.2	S 24 26.5	59.0	Alpheratz	357 35.8	N 29 13.3	
15	57 26.0	44 13.9	N 5 39.2	58 35.4	S 2 07.2	76 19.0	S 9 18.9	11 44.3	N 16 23.4	71 37.3	S 7 52.8	110 24.6	S 24 17.2	59.0	Altair	62 00.7	N 8 55.7	
16	72 28.4	59 14.1	N 5 40.2	73 35.1	S 2 06.0	91 19.6	S 9 18.2	26 46.2	N 16 23.5	86 39.5	S 7 52.7	124 50.0	S 24 07.7	59.1	Ankaa	353 08.2	S 42 10.6	
17	87 30.9	74 14.2	N 5 41.2	88 34.7	S 2 04.7	106 20.2	S 9 17.5	41 48.2	N 16 23.7	101 41.7	S 7 52.6	139 15.4	S 23 58.1	59.1	Antares	112 16.5	S 26 29.2	
18	102 33.3	89 14.4	N 5 42.1	103 34.3	S 2 03.5	121 20.9	S 9 16.8	56 50.1	N 16 23.8	116 44.0	S 7 52.5	153 40.9	S 23 48.3	59.1				
19	117 35.8	104 14.6	N 5 43.1	118 33.9	S 2 02.3	136 21.5	S 9 16.0	71 52.0	N 16 24.0	131 46.2	S 7 52.4	168 06.4	S 23 38.3	59.2	Arcturus	145 48.2	N 19 03.2	
20	132 38.3	119 14.8	N 5 44.0	133 33.5	S 2 01.1	151 22.1	S 9 15.3	86 53.9	N 16 24.1	146 48.4	S 7 52.3	182 32.0	S 23 28.2	59.2	Atria	107 11.1	S 69 04.0	
21	147 40.7	134 15.0	N 5 45.0	148 33.2	S 1 59.9	166 22.8	S 9 14.6	101 55.9	N 16 24.3	161 50.6	S 7 52.2	196 57.6	S 23 17.9	59.2	Avior	234 14.8	S 59 35.5	
22	162 43.2	149 15.1	N 5 45.9	163 32.8	S 1 58.6	181 23.4	S 9 13.9	116 57.8	N 16 24.5	176 52.8	S 7 52.1	211 23.3	S 23 07.5	59.3	Bellatrix	278 23.7	N 6 22.2	
23	177 45.7	164 15.3	N 5 46.9	178 32.4	S 1 57.4	196 24.1	S 9 13.1	131 59.7	N 16 24.6	191 55.0	S 7 52.0	225 49.1	S 22 56.9	59.3	Betelgeuse	270 52.9	N 7 24.6	
04 00	192 48.1	179 15.5	N 5 47.8	193 32.0	S 1 56.2	211 24.7	S 9 12.4	147 01.6	N 16 24.8	206 57.2	S 7 51.8	240 14.9	S 22 46.2	59.3	Canopus	263 52.7	S 52 42.8	
01	207 50.6	194 15.7	N 5 48.8	208 31.7	S 1 55.0	226 25.3	S 9 11.7	162 03.5	N 16 24.9	221 59.4	S 7 51.7	254 40.7	S 22 35.3	59.4	Capella	280 23.0	N 46 01.5	
02	222 53.1	209 15.9	N 5 49.7	223 31.3	S 1 53.8	241 26.0	S 9 11.0	177 05.5	N 16 25.1	237 01.6	S 7 51.6	269 06.6	S 22 24.3	59.4	Castor	245 57.8	N 31 50.2	
03	237 55.5	224 16.0	N 5 50.7	238 30.9	S 1 52.6	256 26.6	S 9 10.2	192 07.4	N 16 25.2	252 03.8	S 7 51.5	283 32.6	S 22 13.1	59.4	Deneb	49 26.5	N 45 21.7	
04	252 58.0	239 16.2	N 5 51.6	253 30.5	S 1 51.3	271 27.2	S 9 09.5	207 09.3	N 16 25.4	267 06.0	S 7 51.4	297 58.6	S 22 01.7	59.5	Denebola	182 25.3	N 44 26.1	
05	268 00.5	254 16.4	N 5 52.6	268 30.2	S 1 50.1	286 27.9	S 9 08.8	222 11.2	N 16 25.6	282 08.2	S 7 51.3	312 24.7	S 21 50.3	59.5				
06	283 02.9	269 16.6	N 5 53.5	283 29.8	S 1 48.9	301 28.5	S 9 08.0	237 13.1	N 16 25.7	297 10.4	S 7 51.2	326 50.8	S 21 38.6	59.5	Diphda	348 48.3	S 17 51.4	
07	298 05.4	284 16.8	N 5 54.5	298 29.4	S 1 47.7	316 29.1	S 9 07.3	252 15.1	N 16 25.9	312 12.6	S 7 51.1	341 17.0	S 21 26.9	59.6	Dubhe	193 41.2	N 61 37.3	
08	313 07.8	299 16.9	N 5 55.4	313 29.0	S 1 46.5	331 29.8	S 9 06.6	267 17.0	N 16 26.0	327 14.8	S 7 51.0	355 43.2	S 21 15.0	59.6	Elnath	278 02.8	N 28 37.7	
09	328 10.3	314 17.1	N 5 56.4	328 28.7	S 1 45.3	346 30.4	S 9 05.9	282 18.9	N 16 26.2	342 17.0	S 7 50.9	10 09.5	S 21 02.9	59.6	Etamin	90 42.4	N 51 28.7	
10	343 12.8	329 17.3	N 5 57.4	343 28.3	S 1 44.0	1 31.1	S 9 05.1	297 20.8	N 16 26.3	357 19.2	S 7 50.8	24 35.9	S 20 50.7	59.7	Enif	33 39.7	N 9 58.9	
11	358 15.2	344 17.5	N 5 58.3	358 27.9	S 1 42.8	16 31.7	S 9 04.4	312 22.8	N 16 26.5	12 21.4	S 7 50.7	39 02.3	S 20 38.4	59.7				
12	13 17.7	359 17.7	N 5 59.3	13 27.5	S 1 41.6	31 32.3	S 9 03.7	327 24.7	N 16 26.6	27 23.6	S 7 50.6	53 28.8	S 20 25.9	59.7	Fomalhaut	15 15.5	S 29 29.7	
13	28 20.2	14 17.8	N 6 00.2	28 27.2	S 1 40.4	46 33.0	S 9 03.0	342 26.6	N 16 26.8	42 25.8	S 7 50.5	67 55.3	S 20 13.3	59.7	Gacrux	171 51.9	S 57 15.0	
14	43 22.6	29 18.0	N 6 01.2	43 26.8	S 1 39.2	61 33.6	S 9 02.2	357 28.5	N 16 27.0	57 28.0	S 7 50.4	82 21.9	S 20 00.5	59.8	Gienah	175 44.0	S 17 40.7	
15	58 25.1	44 18.2	N 6 02.1	58 26.4	S 1 37.9	76 34.2	S 9 01.5	12 30.4	N 16 27.1	72 30.2	S 7 50.3	96 48.6	S 19 47.7	59.8	Hadar	148 36.4	S 60 29.3	
16	73 27.6	59 18.4	N 6 03.1	73 26.0	S 1 36.7	91 34.9	S 9 00.8	27 32.4	N 16 27.3	87 32.4	S 7 50.2	111 15.3	S 19 34.6	59.8	Hamal	327 52.3	N 23 34.5	
17	88 30.0	74 18.6	N 6 04.0	88 25.7	S 1 35.5	106 35.5	S 9 00.0	42 34.3	N 16 27.4	102 34.6	S 7 50.1	125 42.0	S 19 21.5	59.9				
18	103 32.5	89 18.7	N 6 05.0	103 25.3	S 1 34.3	121 36.2	S 8 59.3	57 36.2	N 16 27.6	117 36.9	S 7 50.0	140 08.9	S 19 08.2	59.9	Kaus aust.	83 33.3	S 34 22.3	
19	118 35.0	104 18.9	N 6 05.9	118 24.9	S 1 33.1	136 36.8	S 8 58.6	72 38.1	N 16 27.7	132 39.1	S 7 49.9	154 35.7	S 18 54.8	59.9	Kochab	137 18.7	N 74 03.1	
20	133 37.4	119 19.1	N 6 06.9	133 24.5	S 1 31.8	151 37.4	S 8 57.8	87 40.0	N 16 27.9	147 41.3	S 7 49.8	169 02.7	S 18 41.3	60.0	Markab	13 30.9	N 15 19.9	
21	148 39.9	134 19.3	N 6 07.8	148 24.2	S 1 30.6	166 38.1	S 8 57.1	102 42.0	N 16 28.1	162 43.5	S 7 49.7	183 29.7	S 18 27.6	60.0	Menkar	314 07.1	N 4 11.0	
22	163 42.3	149 19.5	N 6 08.8	163 23.8	S 1 29.4	181 38.7	S 8 56.4	117 43.9	N 16 28.2	177 45.7	S 7 49.6	197 56.8	S 18 13.9	60.0	Menkent	147 58.1	S 36 29.4	
23	178 44.8	164 19.6	N 6 09.7	178 23.4	S 1 28.2	196 39.4	S 8 55.7	132 45.8	N 16 28.4	192 47.9	S 7 49.5	212 23.9	S 18 00.0	60.0				
05 00	193 47.3	179 19.8	N 6 10.6	193 23.0	S 1 27.0	211 40.0	S 8 54.9	147 47.7	N 16 28.5	207 50.1	S 7 49.4	226 51.0	S 17 45.9	60.1	Miaplacidus	221 38.0	S 69 49.2	
01	208 49.7	194 20.0	N 6 11.6	208 22.7	S 1 25.7	226 40.6	S 8 54.2	162 49.6	N 16 28.7	222 52.3	S 7 49.3	241 18.3	S 17 31.8	60.1	Mirfak	308 29.6	N 49 56.9	
02	223 52.2	209 20.2	N 6															

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	APRILE	01
d h	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "
06 00	194 46.4	179 24.1	N 6 33.4	193 14.1	S 0 57.6	211 55.4	S 8 37.4	148 33.7	N 16 32.3	208 43.0	S 7 47.0	213 59.2	S 11 37.4	60.7	NOME	360	- AR	Dec.
01	209 48.9	194 24.2	N 6 34.3	208 13.7	S 0 56.4	226 56.0	S 8 36.6	163 35.7	N 16 32.4	223 45.2	S 7 46.9	228 27.6	S 11 20.9	60.7	Acamar	315 12.6	S 40 12.6	
02	224 51.3	209 24.4	N 6 35.2	223 13.3	S 0 55.2	241 56.7	S 8 35.9	178 37.6	N 16 32.6	238 47.4	S 7 46.8	242 56.1	S 11 04.3	60.7	Achernar	335 21.2	S 57 06.9	
03	239 53.8	224 24.6	N 6 36.2	238 13.0	S 0 54.0	256 57.3	S 8 35.2	193 39.5	N 16 32.8	253 49.7	S 7 46.7	257 24.6	S 10 47.6	60.7	AcruX	173 00.2	S 63 14.1	
04	254 56.3	239 24.8	N 6 37.1	253 12.6	S 0 52.8	271 58.0	S 8 34.5	208 41.4	N 16 32.9	268 51.9	S 7 46.6	271 53.2	S 10 30.9	60.7	Adhara	255 06.4	S 29 00.5	
05	269 58.7	254 24.9	N 6 38.1	268 12.2	S 0 51.5	286 58.6	S 8 33.7	223 43.3	N 16 33.1	283 54.1	S 7 46.5	286 21.8	S 10 14.1	60.8	Aldebaran	290 40.6	N 16 33.4	
06	285 01.2	269 25.1	N 6 39.0	283 11.9	S 0 50.3	301 59.2	S 8 33.0	238 45.2	N 16 33.2	298 56.3	S 7 46.4	300 50.4	S 9 57.2	60.8				
07	300 03.7	284 25.3	N 6 40.0	298 11.5	S 0 49.1	316 59.9	S 8 32.2	253 47.2	N 16 33.4	313 58.5	S 7 46.3	315 19.1	S 9 40.3	60.8	Alioth	166 12.9	N 55 49.6	
08	315 06.1	299 25.5	N 6 40.9	313 11.1	S 0 47.9	332 00.5	S 8 31.5	268 49.1	N 16 33.5	329 00.7	S 7 46.2	329 47.8	S 9 23.2	60.8	Alkaid	152 52.0	N 49 11.4	
09	330 08.6	314 25.6	N 6 41.8	328 10.7	S 0 46.6	347 01.2	S 8 30.8	283 51.0	N 16 33.7	344 02.9	S 7 46.1	344 16.5	S 9 06.2	60.8	Alnair	27 34.1	S 46 50.6	
10	345 11.1	329 25.8	N 6 42.8	343 10.4	S 0 45.4	2 01.8	S 8 30.0	298 52.9	N 16 33.8	359 05.1	S 7 46.0	358 45.3	S 8 49.0	60.8	Alnilam	275 38.5	S 1 11.3	
11	0 13.5	344 26.0	N 6 43.7	358 10.0	S 0 44.2	17 02.5	S 8 29.3	313 54.8	N 16 34.0	14 07.3	S 7 45.9	13 14.1	S 8 31.8	60.9	Alphard	217 48.2	S 8 45.9	
12	15 16.0	359 26.2	N 6 44.7	13 09.6	S 0 43.0	32 03.1	S 8 28.6	328 56.7	N 16 34.2	29 09.5	S 7 45.8	27 43.0	S 8 14.6	60.9				
13	30 18.4	14 26.3	N 6 45.6	28 09.3	S 0 41.8	47 03.7	S 8 27.8	343 58.7	N 16 34.3	44 11.7	S 7 45.7	42 11.8	S 7 57.3	60.9	Alphecca	126 04.0	N 26 37.7	
14	45 20.9	29 26.5	N 6 46.6	43 08.9	S 0 40.5	62 04.4	S 8 27.1	359 00.6	N 16 34.5	59 13.9	S 7 45.6	56 40.7	S 7 39.9	60.9	Alpheratz	357 35.8	N 29 13.3	
15	60 23.4	44 26.7	N 6 47.5	58 08.5	S 0 39.3	77 05.0	S 8 26.4	14 02.5	N 16 34.6	74 16.1	S 7 45.5	71 09.6	S 7 22.5	60.9	Altair	62 00.7	N 8 55.7	
16	75 25.8	59 26.9	N 6 48.4	73 08.1	S 0 38.1	92 05.7	S 8 25.6	29 04.4	N 16 34.8	89 18.4	S 7 45.4	85 38.6	S 7 05.0	60.9	Ankaa	353 08.2	S 42 10.6	
17	90 28.3	74 27.0	N 6 49.4	88 07.8	S 0 36.9	107 06.3	S 8 24.9	44 06.3	N 16 34.9	104 20.6	S 7 45.3	100 07.6	S 6 47.5	60.9	Antares	112 16.5	S 26 29.2	
18	105 30.8	89 27.2	N 6 50.3	103 07.4	S 0 35.6	122 07.0	S 8 24.2	59 08.2	N 16 35.1	119 22.8	S 7 45.2	114 36.6	S 6 30.0	61.0				
19	120 33.2	104 27.4	N 6 51.3	118 07.0	S 0 34.4	137 07.6	S 8 23.4	74 10.1	N 16 35.3	134 25.0	S 7 45.1	129 05.6	S 6 12.3	61.0	Arcturus	145 48.2	N 19 03.2	
20	135 35.7	119 27.6	N 6 52.2	133 06.7	S 0 33.2	152 08.3	S 8 22.7	89 12.1	N 16 35.4	149 27.2	S 7 45.0	143 34.6	S 5 54.7	61.0	Atria	107 11.0	S 69 04.0	
21	150 38.2	134 27.7	N 6 53.1	148 06.3	S 0 32.0	167 08.9	S 8 22.0	104 14.0	N 16 35.6	164 29.4	S 7 44.9	158 07.3	S 5 37.0	61.0	Avior	234 14.8	S 59 35.5	
22	165 40.6	149 27.9	N 6 54.1	163 05.9	S 0 30.7	182 09.5	S 8 21.2	119 15.9	N 16 35.7	179 31.6	S 7 44.8	172 32.8	S 5 19.3	61.0	Bellatrix	278 23.7	N 6 22.2	
23	180 43.1	164 28.1	N 6 55.0	178 05.5	S 0 29.5	197 10.2	S 8 20.5	134 17.8	N 16 35.9	194 33.8	S 7 44.7	187 01.9	S 5 01.5	61.0	Betelgeuse	270 52.9	N 7 24.6	
07 00	195 45.5	179 28.3	N 6 56.0	193 05.2	S 0 28.3	212 10.8	S 8 19.8	149 19.7	N 16 36.0	209 36.0	S 7 44.6	201 31.0	S 4 43.7	61.0	Canopus	263 52.8	S 52 42.8	
01	210 48.0	194 28.4	N 6 56.9	208 04.8	S 0 27.1	227 11.5	S 8 19.0	164 21.6	N 16 36.2	224 38.2	S 7 44.5	216 00.2	S 4 25.9	61.0	Capella	280 23.0	N 46 01.5	
02	225 50.5	209 28.6	N 6 57.8	223 04.4	S 0 25.8	242 12.1	S 8 18.3	179 23.5	N 16 36.3	239 40.4	S 7 44.4	230 29.3	S 4 08.0	61.0	Castor	245 57.8	N 31 50.2	
03	240 52.9	224 28.8	N 6 58.8	238 04.1	S 0 24.6	257 12.8	S 8 17.6	194 25.5	N 16 36.5	254 42.6	S 7 44.3	244 58.5	S 3 50.1	61.0	Deneb	49 26.5	N 45 21.7	
04	255 55.4	239 29.0	N 6 59.7	253 03.7	S 0 23.4	272 13.4	S 8 16.8	209 27.4	N 16 36.7	269 44.9	S 7 44.2	259 27.7	S 3 32.2	61.1	Denebola	182 25.3	N 14 26.1	
05	270 57.9	254 29.1	N 7 00.7	268 03.3	S 0 22.2	287 14.1	S 8 16.1	224 29.3	N 16 36.8	284 47.1	S 7 44.1	273 56.9	S 3 14.2	61.1				
06	286 00.3	269 29.3	N 7 01.6	283 02.9	S 0 20.9	302 14.7	S 8 15.3	239 31.2	N 16 37.0	299 49.0	S 7 44.0	288 26.1	S 2 56.3	61.1	Diphda	348 48.3	S 17 51.4	
07	301 02.8	284 29.5	N 7 02.5	298 02.6	S 0 19.7	317 15.4	S 8 14.6	254 33.1	N 16 37.1	314 51.5	S 7 43.9	302 55.3	S 2 38.3	61.1	Dubhe	193 41.2	N 61 37.3	
08	316 05.3	299 29.7	N 7 03.5	313 02.2	S 0 18.5	332 16.0	S 8 13.9	269 35.0	N 16 37.3	329 53.7	S 7 43.8	317 24.5	S 2 20.3	61.1	Elnath	278 02.8	N 28 37.7	
09	331 07.7	314 29.8	N 7 04.4	328 01.8	S 0 17.3	347 16.7	S 8 13.1	284 36.9	N 16 37.4	344 55.9	S 7 43.7	331 53.8	S 2 02.3	61.1	Etamin	90 42.4	N 51 28.7	
10	346 10.2	329 30.0	N 7 05.3	343 01.5	S 0 16.1	2 17.3	S 8 12.4	299 39.8	N 16 37.6	359 58.1	S 7 43.6	346 23.0	S 1 44.2	61.1	Enif	33 39.7	N 9 58.9	
11	1 12.7	344 30.2	N 7 06.3	358 01.1	S 0 14.8	17 17.9	S 8 11.7	314 40.8	N 16 37.8	15 00.3	S 7 43.5	0 52.2	S 1 26.2	61.1				
12	16 15.1	359 30.3	N 7 07.2	13 00.7	S 0 13.6	32 18.6	S 8 10.9	329 42.7	N 16 37.9	30 02.5	S 7 43.4	15 21.5	S 1 08.1	61.1	Fomalhaut	15 15.5	S 29 29.7	
13	31 17.6	14 30.5	N 7 08.2	28 00.4	S 0 12.4	47 19.2	S 8 10.2	344 44.6	N 16 38.1	45 04.7	S 7 43.3	29 50.7	S 0 50.0	61.1	Gacrux	171 51.9	S 57 15.0	
14	46 20.0	29 30.7	N 7 09.1	43 00.0	S 0 11.2	62 19.9	S 8 09.4	359 46.5	N 16 38.2	60 06.9	S 7 43.2	44 20.0	S 0 31.9	61.1	Gienah	175 44.0	S 17 40.7	
15	61 22.5	44 30.9	N 7 10.0	57 59.6	S 0 09.9	77 20.5	S 8 08.7	14 48.4	N 16 38.4	75 09.2	S 7 43.1	58 49.2	S 0 13.8	61.1	Hadar	148 36.4	S 60 29.3	
16	76 25.0	59 31.0	N 7 11.0	72 59.2	S 0 08.7	92 21.2	S 8 08.0	29 50.3	N 16 38.5	90 11.4	S 7 43.0	73 18.5	N 0 04.2	61.1	Hamal	327 52.3	N 23 34.5	
17	91 27.4	74 31.2	N 7 11.9	87 58.9	S 0 07.5	107 21.8	S 8 07.2	44 52.2	N 16 38.7	105 13.6	S 7 42.9	87 47.7	N 0 22.3	61.1				
18	106 29.9	89 31.4	N 7 12.8	102 58.5	S 0 06.3	122 22.5	S 8 06.5	59 54.2	N 16 38.8	120 15.8	S 7 42.8	102 16.9	N 0 40.4	61.1	Kaus aust.	83 33.3	S 34 22.3	
19	121 32.4	104 31.6	N 7 13.8	117 58.1	S 0 05.0	137 23.1	S 8 05.8	74 56.1	N 16 39.0	135 18.0	S 7 42.7	116 46.2	N 0 58.5	61.1	Kochab	137 18.7	N 74 03.1	
20	136 34.8	119 31.7	N 7 14.7	132 57.8	S 0 03.8	152 23.8	S 8 05.0	89 58.0	N 16 39.2	150 20.2	S 7 42.6	131 15.4	N 1 16.6	61.1	Markab	13 30.9	N 15 19.9	
21	151 37.3	134 31.9	N 7 15.6	147 57.4	S 0 02.6	167 24.4	S 8 04.3	104 59.9	N 16 39.3	165 22.4	S 7 42.5	145 44.6	N 1 34.7	61.1	Menkar	314 07.1	N 4 11.0	
22	166 39.8	149 32.1	N 7 16.6	162 57.0	S 0 01.4	182 25.1	S 8 03.5	120 01.8	N 16 39.5	180 24.6	S 7 42.4	160 13.8	N 1 52.7	61.1	Menkent	147 58.0	S 36 29.4	
23	181 42.2	164 32.2	N 7 17.5	177 56.6	S 0 00.1	197 25.7	S 8 02.8	135 03.7	N 16 39.6	195 26.8	S 7 42.3	174 43.0	N 2 10.8	61.1				
08 00	196 44.7	179 32.4	N 7 18.4	192 56.3	N 0 01.1	212 26.4	S 8 02.1	150 05.6	N 16 39.8	210 29.0	S 7 42.2	189 12.2	N 2 28.8	61.1	Miaplacidus	221 38.0	S 69 49.2	
01	211 47.1	194 32.6	N 7 19.4	207 55.9	N 0 02.3	227 27.0	S 8 01.3	165 07.5	N 16 39.9	225 31.3	S 7 42.1	203 41.4	N 2 46.8	61.1	Mirfak	308 29.6	N 49 56.9	
02	226 49.6	209 32.8	N 7 20.3	222 55.5	N 0 03.5	242 27												

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	APRILE	04
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
09 00	197 43.8	179 36.5	N 7 40.8	192 47.4	N 0 30.5	212 42.0	S 7 44.3	150 51.5	N 16 43.5	211 22.1	S 7 39.8	176 46.4	N 9 32.4	60.9	NOME	360	- AR	Dec.
01	212 46.3	194 36.7	N 7 41.7	207 47.0	N 0 31.7	227 42.6	S 7 43.6	165 53.4	N 16 43.7	226 24.3	S 7 39.7	191 15.0	N 9 49.5	60.8	Acamar	315	12.6	S 40 12.6
02	227 48.7	209 36.8	N 7 42.7	222 46.7	N 0 33.0	242 43.3	S 7 42.8	180 55.3	N 16 43.8	241 26.5	S 7 39.6	205 43.5	N 10 06.5	60.8	Achernar	335	21.2	S 57 06.9
03	242 51.2	224 37.0	N 7 43.6	237 46.3	N 0 34.2	257 43.9	S 7 42.1	195 57.2	N 16 44.0	256 28.8	S 7 39.5	220 11.9	N 10 23.4	60.8	Acruz	173	00.2	S 63 14.1
04	257 53.7	239 37.2	N 7 44.5	252 45.9	N 0 35.4	272 44.6	S 7 41.3	210 59.1	N 16 44.2	271 31.0	S 7 39.4	234 40.4	N 10 40.2	60.8	Adhara	255	06.4	S 29 00.5
05	272 56.1	254 37.3	N 7 45.4	267 45.6	N 0 36.6	287 45.2	S 7 40.6	226 01.0	N 16 44.3	286 33.2	S 7 39.3	249 08.7	N 10 57.0	60.8	Aldebaran	290	40.6	N 16 33.4
06	287 58.6	269 37.5	N 7 46.4	282 45.2	N 0 37.9	302 45.9	S 7 39.9	241 02.9	N 16 44.5	301 35.4	S 7 39.2	263 37.1	N 11 13.7	60.8				
07	303 01.1	284 37.7	N 7 47.3	297 44.8	N 0 39.1	317 46.5	S 7 39.1	256 04.8	N 16 44.6	316 37.6	S 7 39.1	278 05.4	N 11 30.3	60.7	Alioth	166	12.9	N 55 49.6
08	318 03.5	299 37.8	N 7 48.2	312 44.4	N 0 40.3	332 47.2	S 7 38.4	271 06.7	N 16 44.8	331 39.8	S 7 39.0	292 33.6	N 11 46.8	60.7	Alkaid	152	52.0	N 49 11.4
09	333 06.0	314 38.0	N 7 49.2	327 44.1	N 0 41.5	347 47.8	S 7 37.6	286 08.7	N 16 44.9	346 42.0	S 7 38.9	307 01.8	N 12 03.3	60.7	Alnair	27	34.0	S 46 50.6
10	348 08.5	329 38.2	N 7 50.1	342 43.7	N 0 42.8	2 48.5	S 7 36.9	301 10.6	N 16 45.1	1 44.2	S 7 38.8	321 30.0	N 12 19.7	60.7	Alnilam	275	38.5	S 1 11.3
11	3 10.9	344 38.3	N 7 51.0	357 43.3	N 0 44.0	17 49.1	S 7 36.1	316 12.5	N 16 45.3	16 46.4	S 7 38.8	335 58.1	N 12 36.0	60.7	Alphard	217	48.2	S 8 45.9
12	18 13.4	359 38.5	N 7 51.9	12 43.0	N 0 45.2	32 49.8	S 7 35.4	331 14.4	N 16 45.4	31 48.7	S 7 38.7	350 26.2	N 12 52.2	60.6				
13	33 15.9	14 38.7	N 7 52.9	27 42.6	N 0 46.4	47 50.4	S 7 34.7	346 16.3	N 16 45.6	46 50.9	S 7 38.6	4 54.2	N 13 08.3	60.6	Alphecca	126	04.0	N 26 37.8
14	48 18.3	29 38.8	N 7 53.8	42 42.2	N 0 47.7	62 51.1	S 7 33.9	1 18.2	N 16 45.7	61 53.1	S 7 38.5	19 22.1	N 13 24.3	60.6	Alpheratz	357	35.8	N 29 13.3
15	63 20.8	44 39.0	N 7 54.7	57 41.9	N 0 48.9	77 51.8	S 7 33.2	16 20.1	N 16 45.9	76 55.3	S 7 38.4	33 50.1	N 13 40.3	60.6	Altair	62	00.7	N 8 55.7
16	78 23.2	59 39.2	N 7 55.6	72 41.5	N 0 50.1	92 52.4	S 7 32.4	31 22.0	N 16 46.0	91 57.5	S 7 38.3	48 17.9	N 13 56.1	60.5	Ankaa	353	08.2	S 42 10.6
17	93 25.7	74 39.3	N 7 56.6	87 41.1	N 0 51.3	107 53.1	S 7 31.7	46 23.9	N 16 46.2	106 59.7	S 7 38.2	62 45.7	N 14 11.9	60.5	Antares	112	16.4	S 26 29.2
18	108 28.2	89 39.5	N 7 57.5	102 40.8	N 0 52.6	122 53.7	S 7 30.9	61 25.8	N 16 46.3	122 01.9	S 7 38.1	77 13.5	N 14 27.6	60.5				
19	123 30.6	104 39.7	N 7 58.4	117 40.4	N 0 53.8	137 54.4	S 7 30.2	76 27.7	N 16 46.5	137 04.2	S 7 38.0	91 41.2	N 14 43.1	60.5	Arcturus	145	48.2	N 19 03.2
20	138 33.1	119 39.8	N 7 59.3	132 40.0	N 0 55.0	152 55.0	S 7 29.5	91 29.6	N 16 46.7	152 06.4	S 7 37.9	106 08.9	N 14 58.6	60.4	Atria	107	11.0	S 69 04.1
21	153 35.6	134 40.0	N 8 00.3	147 39.6	N 0 56.2	167 55.7	S 7 28.7	106 31.5	N 16 46.8	167 08.6	S 7 37.8	120 36.5	N 15 14.0	60.4	Avior	234	14.8	S 59 35.5
22	168 38.0	149 40.2	N 8 01.2	162 39.3	N 0 57.5	182 56.3	S 7 28.0	121 33.5	N 16 47.0	182 10.8	S 7 37.7	135 04.0	N 15 29.2	60.4	Bellatrix	278	23.7	N 6 22.2
23	183 40.5	164 40.3	N 8 02.1	177 38.9	N 0 58.7	197 57.0	S 7 27.2	136 35.4	N 16 47.1	197 13.0	S 7 37.6	149 31.5	N 15 44.4	60.4	Betelgeuse	270	52.9	N 7 24.6
10 00	198 43.0	179 40.5	N 8 03.0	192 38.5	N 0 59.9	212 57.6	S 7 26.5	151 37.3	N 16 47.3	212 15.2	S 7 37.5	163 59.0	N 15 59.4	60.3	Canopus	263	52.8	S 52 42.8
01	213 45.4	194 40.7	N 8 04.0	207 38.2	N 0 01.1	227 58.3	S 7 25.7	166 39.2	N 16 47.4	227 17.4	S 7 37.4	178 26.0	N 16 14.4	60.3	Capella	280	23.1	N 46 01.5
02	228 47.9	209 40.8	N 8 04.9	222 37.8	N 1 02.4	242 58.9	S 7 25.0	181 41.1	N 16 47.6	242 19.6	S 7 37.3	192 53.7	N 16 29.2	60.3	Castor	245	57.8	N 31 50.2
03	243 50.4	224 41.0	N 8 05.8	237 37.4	N 1 03.6	257 59.6	S 7 24.2	196 43.0	N 16 47.7	257 21.9	S 7 37.2	207 21.0	N 16 43.9	60.3	Deneb	49	26.4	N 45 21.6
04	258 52.8	239 41.2	N 8 06.7	252 37.1	N 1 04.8	273 00.3	S 7 23.5	211 44.9	N 16 47.9	272 24.1	S 7 37.1	221 48.2	N 16 58.5	60.2	Denebola	182	25.3	N 14 26.1
05	273 55.3	254 41.3	N 8 07.6	267 36.7	N 1 06.0	288 00.9	S 7 22.8	226 46.8	N 16 48.1	287 26.3	S 7 37.0	236 15.4	N 17 13.0	60.2				
06	288 57.7	269 41.5	N 8 08.6	282 36.3	N 1 07.3	303 01.6	S 7 22.0	241 48.7	N 16 48.2	302 28.5	S 7 36.9	250 42.5	N 17 27.4	60.2	Diphda	348	48.3	S 17 51.3
07	304 00.2	284 41.7	N 8 09.5	297 36.0	N 1 08.5	318 02.2	S 7 21.3	256 50.6	N 16 48.4	317 30.7	S 7 36.8	265 09.6	N 17 41.6	60.1	Dubhe	193	41.2	N 61 37.3
08	319 02.7	299 41.8	N 8 10.4	312 35.6	N 1 09.7	333 02.9	S 7 20.5	271 52.5	N 16 48.5	332 32.9	S 7 36.7	279 36.6	N 17 55.8	60.1	Elnath	278	02.8	N 28 37.7
09	334 05.1	314 42.0	N 8 11.3	327 35.2	N 1 10.9	348 03.5	S 7 19.8	286 54.4	N 16 48.7	347 35.1	S 7 36.6	294 03.5	N 18 09.8	60.1	Etamin	90	42.3	N 51 28.7
10	349 07.6	329 42.2	N 8 12.3	342 34.8	N 1 12.2	3 04.2	S 7 19.0	301 56.3	N 16 48.8	2 37.4	S 7 36.5	308 30.0	N 18 23.7	60.0	Enif	33	39.6	N 9 58.9
11	4 10.1	344 42.3	N 8 13.2	357 34.5	N 1 13.4	18 04.8	S 7 18.3	316 58.2	N 16 49.0	17 39.6	S 7 36.4	322 57.2	N 18 37.4	60.0				
12	19 12.5	359 42.5	N 8 14.1	12 34.1	N 1 14.6	33 05.5	S 7 17.5	332 00.1	N 16 49.2	32 41.8	S 7 36.3	337 24.0	N 18 51.0	60.0	Fomalhaut	15	15.5	S 29 29.7
13	34 15.0	14 42.7	N 8 15.0	27 33.7	N 1 15.8	48 06.2	S 7 16.8	347 02.0	N 16 49.3	47 44.0	S 7 36.2	351 50.7	N 19 04.5	60.0	Gacrux	171	51.9	S 57 15.0
14	49 17.5	29 42.8	N 8 15.9	42 33.4	N 1 17.1	63 06.8	S 7 16.1	2 04.0	N 16 49.5	62 46.2	S 7 36.1	6 17.4	N 19 17.9	59.9	Gienah	175	43.9	S 17 40.7
15	64 19.9	44 43.0	N 8 16.9	57 33.0	N 1 18.3	78 07.5	S 7 15.3	17 05.9	N 16 49.6	77 48.4	S 7 36.0	20 44.0	N 19 31.2	59.9	Hadar	148	36.4	S 60 29.4
16	79 22.4	59 43.1	N 8 17.8	72 32.6	N 1 19.5	93 08.1	S 7 14.6	32 07.8	N 16 49.8	92 50.6	S 7 35.9	35 10.5	N 19 44.3	59.9	Hamal	327	52.3	N 23 34.5
17	94 24.8	74 43.3	N 8 18.7	87 32.3	N 1 20.7	108 08.8	S 7 13.8	47 09.7	N 16 49.9	107 52.9	S 7 35.8	49 37.0	N 19 57.2	59.8				
18	109 27.3	89 43.5	N 8 19.6	102 31.9	N 1 22.0	123 09.4	S 7 13.1	62 11.6	N 16 50.1	122 55.1	S 7 35.7	64 03.4	N 20 10.1	59.8	Kaus aust.	83	33.3	S 34 22.3
19	124 29.8	104 43.6	N 8 20.5	117 31.5	N 1 23.2	138 10.1	S 7 12.3	77 13.5	N 16 50.2	137 57.3	S 7 35.6	78 29.8	N 20 22.8	59.8	Kochab	137	18.7	N 74 03.1
20	139 32.2	119 43.8	N 8 21.5	132 31.1	N 1 24.4	153 10.7	S 7 11.6	92 15.4	N 16 50.4	152 59.5	S 7 35.5	92 56.1	N 20 35.4	59.7	Markab	13	30.8	N 15 19.9
21	154 34.7	134 44.0	N 8 22.4	147 30.8	N 1 25.6	168 11.4	S 7 10.8	107 17.3	N 16 50.6	168 01.7	S 7 35.4	107 22.4	N 20 47.8	59.7	Menkar	314	07.1	N 4 11.0
22	169 37.2	149 44.1	N 8 23.3	162 30.4	N 1 26.9	183 12.1	S 7 10.1	122 19.2	N 16 50.7	183 03.9	S 7 35.3	121 48.6	N 21 00.1	59.7	Menkent	147	58.0	S 36 29.4
23	184 39.6	164 44.3	N 8 24.2	177 30.0	N 1 28.1	198 12.7	S 7 09.3	137 21.1	N 16 50.9	198 06.2	S 7 35.2	136 14.8	N 21 12.2	59.6				
11 00	199 42.1	179 44.5	N 8 25.1	192 29.7	N 1 29.3	213 13.4	S 7 08.6	152 23.0	N 16 51.0	213 08.4	S 7 35.1	150 40.9	N 21 24.2	59.6	Miaplacidus	221	38.0	S 69 49.2
01	214 44.6	194 44.6	N 8 26.0	207 29.3	N 1 30.5	228 14.0	S 7 07.8	167 24.9	N 16 51.2	228 10.6	S 7 35.0	165 06.9	N 21 36.0	59.5	Mirfak	308	29.6	N 49 56.9
02	229 47.0	209 44.8	N 8 27.0	222														

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	APRILE	07
12 00	200 41.2	179 48.3	N 8 47.1	192 20.8	N 1 58.7	213 29.2	S 6 50.6	153 08.7	N 16 54.8	214 01.6	S 7 32.8	136 52.7	N 25 25.7	58.7	NOME	360	- AR	Dec.
01	215 43.7	194 48.5	N 8 48.0	207 20.4	N 1 59.9	228 29.8	S 6 49.9	168 10.6	N 16 54.9	229 03.8	S 7 32.7	151 17.7	N 25 33.7	58.7	Acamar	315 12.6	S 40 12.6	
02	230 46.2	209 48.7	N 8 48.9	222 20.0	N 2 01.2	243 30.5	S 6 49.2	183 12.5	N 16 55.1	244 06.0	S 7 32.6	165 42.7	N 25 41.5	58.6	Achernar	335 21.2	S 57 06.9	
03	245 48.6	224 48.8	N 8 49.8	237 19.7	N 2 02.4	258 31.2	S 6 48.4	198 14.4	N 16 55.2	259 08.2	S 7 32.5	180 07.6	N 25 49.2	58.6	Acruz	173 00.2	S 63 14.1	
04	260 51.1	239 49.0	N 8 50.7	252 19.3	N 2 03.6	273 31.8	S 6 47.7	213 16.3	N 16 55.4	274 10.4	S 7 32.4	194 32.5	N 25 56.7	58.5	Adhara	255 06.4	S 29 00.5	
05	275 53.6	254 49.1	N 8 51.6	267 18.9	N 2 04.8	288 32.5	S 6 46.9	228 18.2	N 16 55.5	289 12.6	S 7 32.3	208 57.4	N 26 04.1	58.5	Aldebaran	290 40.6	N 16 33.4	
06	290 56.0	269 49.3	N 8 52.5	282 18.6	N 2 06.1	303 33.1	S 6 46.2	243 20.1	N 16 55.7	304 14.9	S 7 32.3	223 22.2	N 26 11.2	58.5				
07	305 58.5	284 49.4	N 8 53.4	297 18.2	N 2 07.3	318 33.8	S 6 45.4	258 22.0	N 16 55.8	319 17.1	S 7 32.2	237 47.0	N 26 18.2	58.4	Alioth	166 12.9	N 55 49.7	
08	321 01.0	299 49.6	N 8 54.4	312 17.8	N 2 08.5	333 34.5	S 6 44.7	273 23.9	N 16 56.0	334 19.3	S 7 32.1	252 11.9	N 26 25.0	58.4	Alkaid	152 52.0	N 49 11.4	
09	336 03.4	314 49.8	N 8 55.3	327 17.5	N 2 09.7	348 35.1	S 6 43.9	288 25.8	N 16 56.2	349 21.5	S 7 32.0	266 36.6	N 26 31.7	58.3	Alnair	27 34.0	S 46 50.6	
10	351 05.9	329 49.9	N 8 56.2	342 17.1	N 2 11.0	3 35.8	S 6 43.2	303 27.7	N 16 56.3	4 23.7	S 7 31.9	281 01.4	N 26 38.1	58.3	Alnilam	275 38.5	S 1 11.3	
11	6 08.3	344 50.1	N 8 57.1	357 16.7	N 2 12.2	18 36.4	S 6 42.4	318 29.6	N 16 56.5	19 26.0	S 7 31.8	295 26.2	N 26 44.4	58.3	Alphard	217 48.2	S 8 45.9	
12	21 10.8	359 50.2	N 8 58.0	12 16.3	N 2 13.4	33 37.1	S 6 41.7	333 31.5	N 16 56.6	34 28.2	S 7 31.7	309 50.9	N 26 50.5	58.2				
13	36 13.3	14 50.4	N 8 58.9	27 16.0	N 2 14.6	48 37.8	S 6 40.9	348 33.4	N 16 56.8	49 30.4	S 7 31.6	324 15.6	N 26 56.5	58.2	Alphecca	126 04.0	N 26 37.8	
14	51 15.7	29 50.6	N 8 59.8	42 15.6	N 2 15.8	63 38.4	S 6 40.2	3 35.3	N 16 56.9	64 32.6	S 7 31.5	338 40.4	N 27 02.3	58.1	Alpheratz	357 35.8	N 29 13.3	
15	66 18.2	44 50.7	N 9 00.7	57 15.2	N 2 17.1	78 39.1	S 6 39.4	18 37.2	N 16 57.1	79 34.8	S 7 31.4	353 05.1	N 27 07.8	58.1	Altair	62 00.6	N 8 55.7	
16	81 20.7	59 50.9	N 9 01.6	72 14.9	N 2 18.3	93 39.8	S 6 38.7	33 39.1	N 16 57.2	94 37.0	S 7 31.3	7 29.8	N 27 13.3	58.1	Ankaa	353 08.2	S 42 10.5	
17	96 23.1	74 51.0	N 9 02.5	87 14.5	N 2 19.5	108 40.4	S 6 37.9	48 41.0	N 16 57.4	109 39.3	S 7 31.2	21 54.5	N 27 18.5	58.0	Antares	112 16.4	S 26 29.2	
18	111 25.6	89 51.2	N 9 03.4	102 14.1	N 2 20.7	123 41.1	S 6 37.2	63 42.9	N 16 57.6	124 41.5	S 7 31.1	36 19.2	N 27 23.6	58.0				
19	126 28.1	104 51.3	N 9 04.3	117 13.7	N 2 22.0	138 41.7	S 6 36.4	78 44.8	N 16 57.7	139 43.7	S 7 31.0	50 43.8	N 27 28.4	57.9	Arcturus	145 48.2	N 19 03.2	
20	141 30.5	119 51.5	N 9 05.3	132 13.4	N 2 23.2	153 42.4	S 6 35.7	93 46.7	N 16 57.9	154 45.9	S 7 30.9	65 08.5	N 27 33.1	57.9	Atria	107 10.9	S 69 04.1	
21	156 33.0	134 51.7	N 9 06.2	147 13.0	N 2 24.4	168 43.1	S 6 34.9	108 48.6	N 16 58.0	169 48.1	S 7 30.8	79 33.2	N 27 37.7	57.9	Avior	234 14.9	S 59 35.5	
22	171 35.4	149 51.8	N 9 07.1	162 12.6	N 2 25.6	183 43.7	S 6 34.2	123 50.5	N 16 58.2	184 50.4	S 7 30.7	93 57.9	N 27 42.0	57.8	Bellatrix	278 23.7	N 6 22.2	
23	186 37.9	164 52.0	N 9 08.0	177 12.3	N 2 26.9	198 44.4	S 6 33.4	138 52.4	N 16 58.3	199 52.6	S 7 30.6	108 22.6	N 27 46.2	57.8	Betelgeuse	270 52.9	N 7 24.6	
13 00	201 40.4	179 52.1	N 9 08.9	192 11.9	N 2 28.1	213 45.1	S 6 32.7	153 54.3	N 16 58.5	214 54.8	S 7 30.5	122 47.3	N 27 50.2	57.7	Canopus	263 52.8	S 52 42.8	
01	216 42.8	194 52.3	N 9 09.8	207 11.5	N 2 29.3	228 45.7	S 6 31.9	168 56.2	N 16 58.6	229 57.0	S 7 30.4	137 12.0	N 27 54.0	57.7	Capella	280 23.1	N 46 01.5	
02	231 45.3	209 52.4	N 9 10.7	222 11.1	N 2 30.5	243 46.4	S 6 31.2	183 58.1	N 16 58.8	244 59.2	S 7 30.3	151 36.8	N 27 57.7	57.7	Castor	245 57.8	N 31 50.2	
03	246 47.8	224 52.6	N 9 11.6	237 10.8	N 2 31.7	258 47.0	S 6 30.4	199 00.0	N 16 59.0	260 01.5	S 7 30.2	166 01.5	N 28 01.1	57.6	Deneb	49 26.4	N 45 21.6	
04	261 50.2	239 52.8	N 9 12.5	252 10.4	N 2 33.0	273 47.7	S 6 29.6	214 01.9	N 16 59.1	275 03.7	S 7 30.2	180 26.2	N 28 04.4	57.6	Denebola	182 25.3	N 44 26.1	
05	276 52.7	254 52.9	N 9 13.4	267 10.0	N 2 34.2	288 48.4	S 6 28.9	229 03.8	N 16 59.3	290 05.9	S 7 30.1	194 51.0	N 28 07.6	57.5				
06	291 55.2	269 53.1	N 9 14.3	282 09.7	N 2 35.4	303 49.0	S 6 28.1	244 05.7	N 16 59.4	305 08.1	S 7 30.0	209 15.8	N 28 10.5	57.5	Diphda	348 48.3	S 17 51.3	
07	306 57.6	284 53.2	N 9 15.2	297 09.3	N 2 36.6	318 49.7	S 6 27.4	259 07.6	N 16 59.6	320 10.3	S 7 29.9	223 40.6	N 28 13.3	57.5	Dubhe	193 41.2	N 61 37.3	
08	322 00.1	299 53.4	N 9 16.1	312 08.9	N 2 37.9	333 50.4	S 6 26.6	274 09.5	N 16 59.7	335 12.6	S 7 29.8	238 05.4	N 28 15.9	57.4	Elnath	278 02.9	N 28 37.7	
09	337 02.6	314 53.5	N 9 17.0	327 08.5	N 2 39.1	348 51.0	S 6 25.9	289 11.4	N 16 59.9	350 14.8	S 7 29.7	252 30.3	N 28 18.3	57.4	Etamin	90 42.3	N 51 28.7	
10	352 05.0	329 53.7	N 9 17.9	342 08.2	N 2 40.3	3 51.7	S 6 25.1	304 13.3	N 17 00.0	5 17.0	S 7 29.6	266 55.2	N 28 20.5	57.4	Enif	33 39.6	N 9 58.9	
11	7 07.5	344 53.9	N 9 18.8	357 07.8	N 2 41.5	18 52.3	S 6 24.4	319 15.2	N 17 00.2	20 19.2	S 7 29.5	281 20.1	N 28 22.6	57.3				
12	22 09.9	359 54.0	N 9 19.7	12 07.4	N 2 42.7	33 53.0	S 6 23.6	334 17.1	N 17 00.4	35 21.4	S 7 29.4	295 45.0	N 28 24.5	57.3	Fomalhaut	15 15.5	S 29 29.7	
13	37 12.4	14 54.2	N 9 20.6	27 07.1	N 2 44.0	48 53.7	S 6 22.9	349 19.0	N 17 00.5	50 23.7	S 7 29.3	310 10.0	N 28 26.2	57.2	Gacrux	171 51.9	S 57 15.0	
14	52 14.9	29 54.3	N 9 21.5	42 06.7	N 2 45.2	63 54.3	S 6 22.1	4 20.9	N 17 00.7	65 25.9	S 7 29.2	324 35.0	N 28 27.7	57.2	Gienah	175 43.9	N 17 40.7	
15	67 17.3	44 54.5	N 9 22.4	57 06.3	N 2 46.4	78 55.0	S 6 21.4	19 22.8	N 17 00.8	80 28.1	S 7 29.1	339 00.0	N 28 29.1	57.2	Hadar	148 36.3	S 60 29.4	
16	82 19.8	59 54.6	N 9 23.3	72 05.9	N 2 47.6	93 55.7	S 6 20.6	34 24.7	N 17 01.0	95 30.3	S 7 29.0	353 25.1	N 28 30.3	57.1	Hamal	327 52.3	N 23 34.5	
17	97 22.3	74 54.8	N 9 24.2	87 05.6	N 2 48.9	108 56.3	S 6 19.9	49 26.6	N 17 01.1	110 32.5	S 7 28.9	7 50.2	N 28 31.3	57.1				
18	112 24.7	89 54.9	N 9 25.1	102 05.2	N 2 50.1	123 57.0	S 6 19.1	64 28.5	N 17 01.3	125 34.8	S 7 28.8	22 15.3	N 28 32.2	57.0	Kaus aust.	83 33.3	S 34 22.3	
19	127 27.2	104 55.1	N 9 26.0	117 04.8	N 2 51.3	138 57.7	S 6 18.4	79 30.4	N 17 01.4	140 37.0	S 7 28.7	36 40.5	N 28 32.8	57.0	Kochab	137 18.6	N 74 03.1	
20	142 29.7	119 55.2	N 9 26.9	132 04.4	N 2 52.5	153 58.3	S 6 17.6	94 32.3	N 17 01.6	155 39.2	S 7 28.6	51 05.8	N 28 33.4	57.0	Markab	13 30.8	N 15 19.9	
21	157 32.1	134 55.4	N 9 27.8	147 04.1	N 2 53.7	168 59.0	S 6 16.9	109 34.2	N 17 01.7	170 41.4	S 7 28.5	65 31.0	N 28 33.7	56.9	Menkar	314 07.1	N 4 11.0	
22	172 34.6	149 55.6	N 9 28.7	162 03.7	N 2 55.0	183 59.7	S 6 16.1	124 36.1	N 17 01.9	185 43.6	S 7 28.4	79 56.4	N 28 33.9	56.9	Menkent	147 58.0	S 36 29.4	
23	187 37.1	164 55.7	N 9 29.6	177 03.3	N 2 56.2	199 00.3	S 6 15.4	139 38.0	N 17 02.1	200 45.9	S 7 28.3	94 21.8	N 28 33.9	56.9				
14 00	202 39.5	179 55.9	N 9 30.5	192 03.0	N 2 57.4	214 01.0	S 6 14.6	154 39.9	N 17 02.2	215 48.1	S 7 28.3	108 47.2	N 28 33.7	56.8	Miaplacidus	221 38.1	S 69 49.2	
01	217 42.0	194 56.0	N 9 31.4	207 02.6	N 2 58.6	229 01.6	S 6 13.9	169 41.8	N 17 02.4	230 50.3	S 7 28.2	123 12.7	N 28 33.4	56.8	Mirfak	308 29.6	N 49 56.9	
02	232 44.4	209 56.2	N 9 32.3	222 02.2	N 2 59.8	244 02.3	S 6 13.1	184 43.7	N 17 02.5	245 52.5	S 7 28.1	137 38.2	N					

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	APRILE	10					
d h	'	'	'	'	'	'	'	'	'	'	'	'					
15 00	203 38.7	179 59.5	N 9 52.0	191 54.0	N 3 26.7	214 17.0	S 5 56.5	155 25.4	N 17 05.9	216 41.4	S 7 26.0	95 16.9	N 27 41.6	56.0	NOME	360 - AR	Dec.
01	218 41.1	194 59.7	N 9 52.9	206 53.6	N 3 27.9	229 17.6	S 5 55.8	170 27.3	N 17 06.1	231 43.6	S 7 25.9	109 44.1	N 27 37.6	56.0	Acamar	315 12.6	S 40 12.6
02	233 43.6	209 59.8	N 9 53.8	221 53.2	N 3 29.1	244 18.3	S 5 55.0	185 29.2	N 17 06.2	246 45.9	S 7 25.8	124 11.3	N 27 33.4	55.9	Achernar	335 21.2	S 57 06.9
03	248 46.1	225 00.0	N 9 54.7	236 52.9	N 3 30.3	259 19.0	S 5 54.2	200 31.1	N 17 06.4	261 48.1	S 7 25.7	138 38.7	N 27 29.0	55.9	Acruz	173 00.2	S 63 14.1
04	263 48.5	240 00.1	N 9 55.6	251 52.5	N 3 31.5	274 19.7	S 5 53.5	215 33.0	N 17 06.5	276 50.3	S 7 25.6	153 06.1	N 27 24.5	55.9	Adhara	255 06.4	S 29 00.5
05	278 51.0	255 00.3	N 9 56.5	266 52.1	N 3 32.8	289 20.3	S 5 52.7	230 34.9	N 17 06.7	291 52.5	S 7 25.5	167 33.7	N 27 19.8	55.8	Aldebaran	290 40.6	N 16 33.4
06	293 53.4	270 00.4	N 9 57.4	281 51.7	N 3 34.0	304 21.0	S 5 52.0	245 36.8	N 17 06.9	306 54.7	S 7 25.4	182 01.3	N 27 15.1	55.8			
07	308 55.9	285 00.6	N 9 58.3	296 51.4	N 3 35.2	319 21.7	S 5 51.2	260 38.7	N 17 07.0	321 57.0	S 7 25.3	196 29.0	N 27 10.1	55.8	Alioth	166 12.9	N 55 49.7
08	323 58.4	300 00.7	N 9 59.1	311 51.0	N 3 36.4	334 22.3	S 5 50.5	275 40.6	N 17 07.2	336 59.2	S 7 25.3	210 56.8	N 27 05.1	55.7	Alkaid	152 52.0	N 49 11.4
09	339 00.8	315 00.8	N 10 00.0	326 50.6	N 3 37.6	349 23.0	S 5 49.7	290 42.5	N 17 07.3	352 01.4	S 7 25.2	225 24.7	N 26 59.9	55.7	Alnair	27 34.0	S 46 50.6
10	354 03.3	330 01.0	N 10 00.9	341 50.2	N 3 38.8	4 23.7	S 5 49.0	305 44.4	N 17 07.5	7 03.6	S 7 25.1	239 52.7	N 26 54.6	55.7	Alnilam	275 38.5	S 1 11.3
11	9 05.8	345 01.1	N 10 01.8	356 49.9	N 3 40.1	19 24.3	S 5 48.2	320 46.3	N 17 07.6	22 05.9	S 7 25.0	254 20.7	N 26 49.1	55.7	Alphard	217 48.2	S 8 45.9
12	24 08.2	0 01.3	N 10 02.7	11 49.5	N 3 41.3	34 25.0	S 5 47.5	335 48.2	N 17 07.8	37 08.1	S 7 24.9	268 48.9	N 26 43.5	55.6			
13	39 10.7	15 01.4	N 10 03.6	26 49.1	N 3 42.5	49 25.7	S 5 46.7	350 50.1	N 17 07.9	52 10.3	S 7 24.8	283 17.2	N 26 37.8	55.6	Alphecca	126 04.0	N 26 37.8
14	54 13.2	30 01.6	N 10 04.5	41 48.7	N 3 43.7	64 26.3	S 5 45.9	5 52.0	N 17 08.1	67 12.5	S 7 24.7	297 45.5	N 26 31.9	55.6	Alpheratz	357 35.8	N 29 13.3
15	69 15.6	45 01.7	N 10 05.4	56 48.3	N 3 44.9	79 27.0	S 5 45.2	20 53.8	N 17 08.3	82 14.8	S 7 24.6	312 14.0	N 26 25.9	55.5	Altair	62 00.6	N 8 55.7
16	84 18.1	60 01.9	N 10 06.3	71 48.0	N 3 46.1	94 27.7	S 5 44.4	35 55.7	N 17 08.4	97 17.0	S 7 24.5	326 42.5	N 26 19.8	55.5	Ankaa	353 08.2	S 42 10.5
17	99 20.5	75 02.0	N 10 07.1	86 47.6	N 3 47.4	109 28.3	S 5 43.7	50 57.6	N 17 08.6	112 19.2	S 7 24.4	341 11.1	N 26 13.6	55.5	Antares	112 16.4	S 26 29.2
18	114 23.0	90 02.2	N 10 08.0	101 47.2	N 3 48.6	124 29.0	S 5 42.9	65 59.5	N 17 08.7	127 21.4	S 7 24.3	355 39.9	N 26 07.2	55.5			
19	129 25.5	105 02.3	N 10 08.9	116 46.8	N 3 49.8	139 29.7	S 5 42.2	81 01.4	N 17 08.9	142 23.7	S 7 24.2	10 08.7	N 26 00.8	55.4	Arcturus	145 48.2	N 19 03.2
20	144 27.9	120 02.5	N 10 09.8	131 46.5	N 3 51.0	154 30.4	S 5 41.4	96 03.3	N 17 09.0	157 25.9	S 7 24.1	24 37.6	N 25 54.1	55.4	Atria	107 10.9	S 69 04.1
21	159 30.4	135 02.6	N 10 10.7	146 46.1	N 3 52.2	169 31.0	S 5 40.6	111 05.2	N 17 09.2	172 28.1	S 7 24.0	39 06.6	N 25 47.4	55.4	Avior	234 14.9	S 59 35.5
22	174 32.9	150 02.8	N 10 11.6	161 45.7	N 3 53.4	184 31.7	S 5 39.9	126 07.1	N 17 09.3	187 30.3	S 7 23.9	53 35.8	N 25 40.6	55.3	Bellatrix	278 23.7	N 6 22.2
23	189 35.3	165 02.9	N 10 12.5	176 45.3	N 3 54.7	199 32.4	S 5 39.1	141 09.0	N 17 09.5	202 32.6	S 7 23.9	68 05.0	N 25 33.6	55.3	Betelgeuse	270 52.9	N 7 24.6
16 00	204 37.8	180 03.1	N 10 13.3	191 45.0	N 3 55.9	214 33.0	S 5 38.4	156 10.9	N 17 09.6	217 34.8	S 7 23.8	82 34.3	N 25 26.5	55.3	Canopus	263 52.8	S 52 42.8
01	219 40.3	195 03.2	N 10 14.2	206 44.6	N 3 57.1	229 33.7	S 5 37.6	171 12.8	N 17 09.8	232 37.0	S 7 23.7	97 03.7	N 25 19.3	55.3	Capella	280 23.1	N 46 01.4
02	234 42.7	210 03.4	N 10 15.1	221 44.2	N 3 58.3	244 34.4	S 5 36.9	186 14.7	N 17 10.0	247 39.2	S 7 23.6	111 33.2	N 25 12.0	55.2	Castor	245 57.9	N 31 50.2
03	249 45.2	225 03.5	N 10 16.0	236 43.8	N 3 59.5	259 35.0	S 5 36.1	201 16.6	N 17 10.1	262 41.5	S 7 23.5	126 02.8	N 25 04.5	55.2	Deneb	49 26.4	N 45 21.6
04	264 47.7	240 03.6	N 10 16.9	251 43.4	N 4 00.7	274 35.7	S 5 35.4	216 18.5	N 17 10.3	277 43.7	S 7 23.4	140 32.5	N 24 57.0	55.2	Denebola	182 25.3	N 14 26.1
05	279 50.1	255 03.8	N 10 17.8	266 43.1	N 4 02.0	289 36.4	S 5 34.6	231 20.4	N 17 10.4	292 45.9	S 7 23.3	155 02.3	N 24 49.3	55.2			
06	294 52.6	270 03.9	N 10 18.6	281 42.7	N 4 03.2	304 37.1	S 5 33.8	246 22.3	N 17 10.6	307 48.1	S 7 23.2	169 32.1	N 24 41.6	55.1	Diphda	348 48.3	S 17 51.3
07	309 55.0	285 04.1	N 10 19.5	296 42.3	N 4 04.4	319 37.7	S 5 33.1	261 24.2	N 17 10.7	322 50.4	S 7 23.1	184 02.1	N 24 33.7	55.1	Dubhe	193 41.2	N 61 37.3
08	324 57.5	300 04.2	N 10 20.4	311 41.9	N 4 05.6	334 38.4	S 5 32.3	276 26.0	N 17 10.9	337 52.6	S 7 23.0	198 32.2	N 24 25.7	55.1	Elnath	278 02.9	N 28 37.7
09	340 00.0	315 04.4	N 10 21.3	326 41.6	N 4 06.8	349 39.1	S 5 31.6	291 27.9	N 17 11.0	352 54.8	S 7 22.9	213 02.4	N 24 17.6	55.1	Etamin	90 42.3	N 51 28.8
10	355 02.4	330 04.5	N 10 22.2	341 41.2	N 4 08.0	4 39.7	S 5 30.8	306 29.8	N 17 11.2	7 57.0	S 7 22.8	227 32.7	N 24 09.4	55.0	Enif	33 39.6	N 9 59.0
11	10 04.9	345 04.7	N 10 23.1	356 40.8	N 4 09.2	19 40.4	S 5 30.1	321 31.7	N 17 11.3	22 59.3	S 7 22.7	242 03.0	N 24 01.1	55.0			
12	25 07.4	0 04.8	N 10 23.9	11 40.4	N 4 10.5	34 41.1	S 5 29.3	336 33.6	N 17 11.5	38 01.5	S 7 22.7	256 33.5	N 23 52.6	55.0	Fomalhaut	15 15.5	S 29 27.0
13	40 09.8	15 05.0	N 10 24.8	26 40.0	N 4 11.7	49 41.8	S 5 28.5	351 35.5	N 17 11.6	53 03.7	S 7 22.6	271 04.0	N 23 44.1	55.0	Gacrux	171 51.9	S 57 15.7
14	55 12.3	30 05.1	N 10 25.7	41 39.7	N 4 12.9	64 42.4	S 5 27.8	6 37.4	N 17 11.8	68 05.9	S 7 22.5	285 34.7	N 23 35.5	55.0	Gienah	175 43.9	N 17 40.7
15	70 14.8	45 05.2	N 10 26.6	56 39.3	N 4 14.1	79 43.1	S 5 27.0	21 39.3	N 17 12.0	83 08.2	S 7 22.4	300 05.4	N 23 26.8	54.9	Hadar	148 36.3	S 60 29.4
16	85 17.2	60 05.4	N 10 27.5	71 38.9	N 4 15.3	94 43.8	S 5 26.3	36 41.2	N 17 12.1	98 10.4	S 7 22.3	314 36.3	N 23 18.0	54.9	Hamal	327 52.3	N 23 34.5
17	100 19.7	75 05.7	N 10 28.3	86 38.5	N 4 16.5	109 44.4	S 5 25.5	51 43.1	N 17 12.3	113 12.6	S 7 22.2	329 07.2	N 23 09.0	54.9			
18	115 22.2	90 05.7	N 10 29.2	101 38.2	N 4 17.7	124 45.1	S 5 24.7	66 45.0	N 17 12.4	128 14.8	S 7 22.1	343 38.3	N 23 00.0	54.9	Kaus aust.	83 33.3	S 34 22.3
19	130 24.6	105 05.8	N 10 30.1	116 37.8	N 4 18.9	139 45.8	S 5 24.0	81 46.9	N 17 12.6	143 17.1	S 7 22.0	358 09.9	N 22 50.9	54.9	Kochab	137 18.6	N 74 03.2
20	145 27.1	120 06.0	N 10 31.0	131 37.4	N 4 20.2	154 46.5	S 5 23.2	96 48.8	N 17 12.7	158 19.3	S 7 21.9	12 40.6	N 22 41.7	54.8	Markab	13 30.8	N 15 19.9
21	160 29.5	135 06.1	N 10 31.9	146 37.0	N 4 21.4	169 47.1	S 5 22.5	111 50.7	N 17 12.9	173 21.5	S 7 21.8	27 11.9	N 22 32.4	54.8	Menkar	314 07.1	N 4 11.0
22	175 32.0	150 06.2	N 10 32.7	161 36.6	N 4 22.6	184 47.8	S 5 21.7	126 52.5	N 17 13.0	188 23.7	S 7 21.7	41 43.3	N 22 23.0	54.8	Menkent	147 58.0	S 36 29.4
23	190 34.5	165 06.4	N 10 33.6	176 36.3	N 4 23.8	199 48.5	S 5 21.0	141 54.4	N 17 13.2	203 26.0	S 7 21.6	56 14.8	N 22 13.5	54.8			
17 00	205 36.9	180 06.5	N 10 34.5	191 35.9	N 4 25.0	214 49.2	S 5 20.2	156 56.3	N 17 13.3	218 28.2	S 7 21.5	70 46.4	N 22 03.9	54.8	Miaplacidus	221 38.1	S 69 49.2
01	220 39.4	195 06.7	N 10 35.4	206 35.5	N 4 26.2	229 49.8	S 5 19.4	171 58.2	N 17 13.5	233 30.4	S 7 21.5	85 18.1	N 21 54.3	54.7	Mirfak	308 29.6	N 49 56.9
02	235 41.9	210 06.8	N 10 36.2	221 35.1	N 4 27.4	244 50.5	S 5 18.7	187 00.1	N 17 13.7	248 32.7	S 7 21.4	99 49.8	N 21 44.5	54.7	Mizar	158 45.8	N 54 47.9
03	250 44.3	225 07.0	N 10 37.1	236 34.7	N 4 28.6	259 51.2	S 5										

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	APRILE	13
18 00	206 36.1	180 09.9	N 10 55.5	191 26.7	N 4 54.1	215 05.3	S 5 02.0	157 41.7	N 17 17.0	219 21.7	S 7 19.4	59 50.1	N 17 49.5	54.4	NOME	360	- AR	Dec.
01	221 38.5	195 10.1	N 10 56.3	206 26.3	N 4 55.3	230 06.0	S 5 01.2	172 43.6	N 17 17.2	234 23.9	S 7 19.3	74 23.8	N 17 37.9	54.4	Acamar	315	12.6	S 40 12.6
02	236 41.0	210 10.2	N 10 57.2	221 26.0	N 4 56.5	245 06.7	S 5 00.5	187 45.5	N 17 17.3	249 26.1	S 7 19.2	88 57.5	N 17 26.4	54.3	Achernar	335	21.2	S 57 06.9
03	251 43.5	225 10.3	N 10 58.1	236 25.6	N 4 57.7	260 07.3	S 4 59.7	202 47.4	N 17 17.5	264 28.4	S 7 19.1	103 31.3	N 17 14.7	54.3	Acruz	173	00.2	S 63 14.1
04	266 45.9	240 10.5	N 10 58.9	251 25.2	N 4 58.9	275 08.0	S 4 58.9	217 49.3	N 17 17.7	279 30.6	S 7 19.0	118 05.2	N 17 03.0	54.3	Adhara	255	06.4	S 29 00.5
05	281 48.4	255 10.6	N 10 59.8	266 24.8	N 5 00.1	290 08.7	S 4 58.2	232 51.2	N 17 17.8	294 32.8	S 7 18.9	132 39.1	N 16 51.2	54.3	Aldebaran	290	40.6	N 16 33.4
06	296 50.9	270 10.7	N 11 00.7	281 24.4	N 5 01.3	305 09.4	S 4 57.4	247 53.1	N 17 18.0	309 35.0	S 7 18.8	147 13.1	N 16 39.4	54.3				
07	311 53.3	285 10.9	N 11 01.6	296 24.0	N 5 02.5	320 10.1	S 4 56.7	262 54.9	N 17 18.1	324 37.3	S 7 18.7	161 47.2	N 16 27.5	54.3	Alioth	166	12.9	N 55 49.7
08	326 55.8	300 11.0	N 11 02.4	311 23.6	N 5 03.7	335 10.7	S 4 55.9	277 56.8	N 17 18.3	339 39.5	S 7 18.6	176 21.3	N 16 15.5	54.3	Alkaid	152	52.0	N 49 11.4
09	341 58.3	315 11.2	N 11 03.3	326 23.3	N 5 04.9	350 11.4	S 4 55.1	292 58.7	N 17 18.4	354 41.7	S 7 18.5	190 55.5	N 16 03.5	54.3	Alnair	27	34.0	S 46 50.5
10	357 00.7	330 11.3	N 11 04.2	341 22.9	N 5 06.1	5 12.1	S 4 54.4	308 00.6	N 17 18.6	9 44.0	S 7 18.4	205 29.8	N 15 51.5	54.3	Alnilam	275	38.5	S 1 11.3
11	12 03.2	345 11.4	N 11 05.0	356 22.5	N 5 07.3	20 12.8	S 4 53.6	323 02.5	N 17 18.7	24 46.2	S 7 18.4	220 04.2	N 15 39.3	54.2	Alphard	217	48.2	S 8 45.9
12	27 05.6	0 11.6	N 11 05.9	11 22.1	N 5 08.5	35 13.4	S 4 52.9	338 04.4	N 17 18.9	39 48.4	S 7 18.3	234 38.6	N 15 27.1	54.2				
13	42 08.1	15 11.7	N 11 06.8	26 21.7	N 5 09.7	50 14.1	S 4 52.1	353 06.3	N 17 19.0	54 50.7	S 7 18.2	249 13.0	N 15 14.9	54.2	Alphecca	126	04.0	N 26 37.8
14	57 10.6	30 11.8	N 11 07.6	41 21.3	N 5 10.9	65 14.8	S 4 51.3	8 08.2	N 17 19.2	69 52.9	S 7 18.1	263 47.6	N 15 02.6	54.2	Alpheratz	357	35.8	N 29 13.3
15	72 13.0	45 12.0	N 11 08.5	56 21.0	N 5 12.2	80 15.5	S 4 50.6	23 10.1	N 17 19.3	84 55.1	S 7 18.0	278 22.1	N 14 50.3	54.2	Altair	62	00.6	N 8 55.7
16	87 15.5	60 12.1	N 11 09.4	71 20.6	N 5 13.4	95 16.1	S 4 49.8	38 11.9	N 17 19.5	99 57.3	S 7 17.9	292 56.8	N 14 37.9	54.2	Ankaa	353	08.2	S 42 10.5
17	102 18.0	75 12.2	N 11 10.2	86 20.2	N 5 14.6	110 16.8	S 4 49.1	53 13.8	N 17 19.6	114 59.6	S 7 17.8	307 31.5	N 14 25.4	54.2	Antares	112	16.4	S 26 29.2
18	117 20.4	90 12.4	N 11 11.1	101 19.8	N 5 15.8	125 17.5	S 4 48.3	68 15.7	N 17 19.8	130 01.8	S 7 17.7	322 06.3	N 14 12.9	54.2				
19	132 22.9	105 12.5	N 11 11.9	116 19.4	N 5 17.0	140 18.2	S 4 47.5	83 17.6	N 17 20.0	145 04.0	S 7 17.6	336 41.1	N 14 00.3	54.2	Arcturus	145	48.2	N 19 03.2
20	147 25.4	120 12.7	N 11 12.8	131 19.0	N 5 18.2	155 18.8	S 4 46.8	98 19.5	N 17 20.1	160 06.3	S 7 17.5	351 15.9	N 13 47.7	54.2	Atria	107	10.8	S 69 04.1
21	162 27.8	135 12.8	N 11 13.7	146 18.6	N 5 19.4	170 19.5	S 4 46.0	113 21.4	N 17 20.3	175 08.5	S 7 17.5	5 50.9	N 13 35.1	54.2	Avior	234	14.9	S 59 35.5
22	177 30.3	150 12.9	N 11 14.5	161 18.3	N 5 20.6	185 20.2	S 4 45.3	128 23.3	N 17 20.4	190 10.7	S 7 17.4	20 25.9	N 13 22.4	54.2	Bellatrix	278	23.7	N 6 22.2
23	192 32.7	165 13.1	N 11 15.4	176 17.9	N 5 21.8	200 20.9	S 4 44.5	143 25.2	N 17 20.6	205 13.0	S 7 17.3	35 00.9	N 13 09.6	54.1	Betelgeuse	270	52.9	N 7 24.6
19 00	207 35.2	180 13.2	N 11 16.3	191 17.5	N 5 23.0	215 21.5	S 4 43.7	158 27.1	N 17 20.7	220 15.2	S 7 17.2	49 36.0	N 12 56.8	54.1	Canopus	263	52.9	S 52 42.7
01	222 37.7	195 13.3	N 11 17.1	206 17.1	N 5 24.2	230 22.2	S 4 43.0	173 28.9	N 17 20.9	235 17.4	S 7 17.1	64 11.1	N 12 44.0	54.1	Capella	280	23.1	N 46 01.4
02	237 40.1	210 13.5	N 11 18.0	221 16.7	N 5 25.4	245 22.9	S 4 42.2	188 30.8	N 17 21.0	250 19.7	S 7 17.0	78 46.3	N 12 31.1	54.1	Castor	245	57.9	N 31 50.2
03	252 42.6	225 13.6	N 11 18.8	236 16.3	N 5 26.6	260 23.6	S 4 41.5	203 32.7	N 17 21.2	265 21.9	S 7 16.9	93 21.6	N 12 18.2	54.1	Deneb	49	26.4	N 45 21.6
04	267 45.1	240 13.7	N 11 19.7	251 15.9	N 5 27.8	275 24.3	S 4 40.7	218 34.6	N 17 21.3	280 24.1	S 7 16.8	107 56.8	N 12 05.2	54.1	Denebola	182	25.3	N 14 26.1
05	282 47.5	255 13.9	N 11 20.6	266 15.5	N 5 29.0	290 24.9	S 4 39.9	233 36.5	N 17 21.5	295 26.3	S 7 16.7	122 32.2	N 11 52.2	54.1				
06	297 50.0	270 14.0	N 11 21.4	281 15.2	N 5 30.2	305 25.6	S 4 39.2	248 38.4	N 17 21.6	310 28.6	S 7 16.6	137 07.6	N 11 39.1	54.1	Diphda	348	48.2	S 17 51.3
07	312 52.5	285 14.1	N 11 22.3	296 14.8	N 5 31.4	320 26.3	S 4 38.4	263 40.3	N 17 21.8	325 30.8	S 7 16.6	151 43.0	N 11 26.1	54.1	Dubhe	193	41.2	N 61 37.3
08	327 54.9	300 14.3	N 11 23.2	311 14.4	N 5 32.6	335 27.0	S 4 37.6	278 42.2	N 17 21.9	340 33.0	S 7 16.5	166 18.5	N 11 12.9	54.1	Elnath	278	02.9	N 28 37.7
09	342 57.4	315 14.4	N 11 24.0	326 14.0	N 5 33.8	350 27.6	S 4 36.9	293 44.0	N 17 22.1	355 35.3	S 7 16.4	180 54.0	N 10 59.7	54.1	Etamin	90	42.2	N 51 28.8
10	357 59.9	330 14.5	N 11 24.9	341 13.6	N 5 35.0	5 28.3	S 4 36.1	308 45.9	N 17 22.3	10 37.5	S 7 16.3	195 29.5	N 10 46.5	54.1	Enif	33	39.6	N 9 59.0
11	13 02.3	345 14.7	N 11 25.7	356 13.2	N 5 36.2	20 29.0	S 4 35.4	323 47.8	N 17 22.4	25 39.7	S 7 16.2	210 05.1	N 10 33.3	54.1				
12	28 04.8	0 14.8	N 11 26.6	11 12.8	N 5 37.4	35 29.7	S 4 34.6	338 49.7	N 17 22.6	40 42.0	S 7 16.1	224 40.7	N 10 20.0	54.1	Fomalhaut	15	15.5	S 29 29.7
13	43 07.2	15 14.9	N 11 27.4	26 12.4	N 5 38.6	50 30.4	S 4 33.8	353 51.6	N 17 22.7	55 44.2	S 7 16.0	239 16.4	N 10 06.7	54.1	Gacrux	171	51.8	S 57 15.1
14	58 09.7	30 15.1	N 11 28.3	41 12.1	N 5 39.8	65 31.0	S 4 33.1	8 53.5	N 17 22.9	70 46.4	S 7 15.9	253 52.1	N 9 53.3	54.1	Gienah	175	43.9	S 17 40.7
15	73 12.2	45 15.2	N 11 29.2	56 11.7	N 5 41.0	80 31.7	S 4 32.3	23 55.4	N 17 23.0	85 48.7	S 7 15.8	268 27.9	N 9 39.9	54.1	Hadar	148	36.3	S 60 29.4
16	88 14.6	60 15.3	N 11 30.0	71 11.3	N 5 42.2	95 32.4	S 4 31.6	38 57.3	N 17 23.2	100 50.9	S 7 15.8	283 03.7	N 9 26.5	54.1	Hamal	327	52.3	N 23 34.5
17	103 17.1	75 15.5	N 11 30.9	86 10.9	N 5 43.4	110 33.1	S 4 30.8	53 59.1	N 17 23.3	115 53.1	S 7 15.7	297 39.5	N 9 13.0	54.1				
18	118 19.6	90 15.6	N 11 31.7	101 10.5	N 5 44.6	125 33.8	S 4 30.0	69 01.0	N 17 23.5	130 55.4	S 7 15.6	312 15.3	N 8 59.5	54.1	Kaus aust.	83	33.2	S 34 22.3
19	133 22.0	105 15.7	N 11 32.6	116 10.1	N 5 45.8	140 34.4	S 4 29.3	84 02.9	N 17 23.6	145 57.6	S 7 15.5	326 51.1	N 8 46.0	54.1	Kochab	137	18.6	N 74 03.2
20	148 24.5	120 15.9	N 11 33.4	131 09.7	N 5 47.0	155 35.1	S 4 28.5	99 04.8	N 17 23.8	160 59.8	S 7 15.4	341 27.2	N 8 32.4	54.1	Markab	13	30.8	N 15 19.9
21	163 27.0	135 16.0	N 11 34.3	146 09.3	N 5 48.2	170 35.8	S 4 27.7	114 06.7	N 17 23.9	176 02.1	S 7 15.3	356 03.1	N 8 18.8	54.1	Menkar	314	07.1	N 4 11.0
22	178 29.4	150 16.1	N 11 35.2	161 08.9	N 5 49.4	185 36.5	S 4 27.0	129 08.6	N 17 24.1	191 04.3	S 7 15.2	10 39.0	N 8 05.2	54.1	Menkent	147	58.0	S 36 29.4
23	193 31.9	165 16.2	N 11 36.0	176 08.5	N 5 50.6	200 37.1	S 4 26.2	144 10.5	N 17 24.2	206 06.5	S 7 15.1	25 15.0	N 7 51.6	54.1				
20 00	208 34.4	180 16.4	N 11 36.9	191 08.2	N 5 51.8	215 37.8	S 4 25.5	159 12.4	N 17 24.4	221 08.8	S 7 15.0	39 51.1	N 7 37.9	54.1	Miaplacidus	221	38.1	S 69 49.2
01	223 36.8	195 16.5	N 11 37.7	206 07.8	N 5 53.0	230 38.5	S 4 24.7	174 14.2	N 17 24.6	236 11.0	S 7 14.9	54 27.1	N 7 24.2	54.1	Mirfak	308	29.6	N 49 56.9
02	238 39.3	210 16.6	N 11 38.6	221 07.4	N 5 54.2	245 39.2	S 4 23.9	189 16.1	N 17 24.7									

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	APRILE	16
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
21 00	209 33.5	180 19.5	N 11 57.3	190 58.7	N 6 20.5	215 54.2	S 4 07.2	159 57.6	N 17 28.1	222 02.4	S 7 12.9	30 21.3	N 2 03.0	54.1	NOME	360	- AR	Dec.
01	224 36.0	195 19.6	N 11 58.1	205 58.3	N 6 21.7	230 54.8	S 4 06.4	174 59.5	N 17 28.2	237 04.6	S 7 12.8	44 57.7	N 1 48.8	54.1	Acamar	315 12.6	S 40 12.6	
02	239 38.4	210 19.7	N 11 59.0	220 57.9	N 6 22.9	245 55.5	S 4 05.6	190 01.4	N 17 28.4	252 06.8	S 7 12.7	59 34.0	N 1 34.7	54.1	Achernar	335 21.2	S 57 06.9	
03	254 40.9	225 19.8	N 11 59.8	235 57.5	N 6 24.1	260 56.2	S 4 04.9	205 03.3	N 17 28.5	267 09.1	S 7 12.6	74 10.4	N 1 20.5	54.1	AcruX	173 00.2	S 63 14.2	
04	269 43.3	240 20.0	N 12 00.7	250 57.1	N 6 25.3	275 56.9	S 4 04.1	220 05.1	N 17 28.7	282 11.3	S 7 12.6	88 46.8	N 1 06.3	54.1	Adhara	255 06.4	S 29 00.5	
05	284 45.8	255 20.1	N 12 01.5	265 56.7	N 6 26.5	290 57.6	S 4 03.3	235 07.0	N 17 28.8	297 13.6	S 7 12.5	103 23.2	N 0 52.1	54.1	Aldebaran	290 40.6	N 16 33.4	
06	299 48.3	270 20.2	N 12 02.4	280 56.3	N 6 27.7	305 58.2	S 4 02.6	250 08.9	N 17 29.0	312 15.8	S 7 12.4	117 59.5	N 0 37.9	54.1				
07	314 50.7	285 20.3	N 12 03.2	295 56.0	N 6 28.9	320 58.9	S 4 01.8	265 10.8	N 17 29.1	327 18.0	S 7 12.3	132 35.9	N 0 23.7	54.1	Alioth	166 12.9	N 55 49.7	
08	329 53.2	300 20.5	N 12 04.0	310 55.6	N 6 30.1	335 59.6	S 4 01.0	280 12.7	N 17 29.3	342 20.3	S 7 12.2	147 12.2	N 0 09.5	54.2	Alkaid	152 52.0	N 49 11.5	
09	344 55.7	315 20.6	N 12 04.9	325 55.2	N 6 31.3	351 00.3	S 4 00.3	295 14.6	N 17 29.4	357 22.5	S 7 12.1	161 48.6	S 0 04.7	54.2	Alnair	27 33.9	S 46 50.5	
10	359 58.1	330 20.7	N 12 05.7	340 54.8	N 6 32.5	6 01.0	S 3 59.5	310 16.5	N 17 29.6	12 24.7	S 7 12.0	176 24.9	S 0 18.9	54.2	Alnilam	275 38.5	S 1 11.3	
11	15 00.6	345 20.8	N 12 06.6	355 54.4	N 6 33.7	21 01.7	S 3 58.8	325 18.3	N 17 29.7	27 27.0	S 7 11.9	191 01.2	S 0 33.1	54.2	Alphard	217 48.2	S 8 46.0	
12	30 03.1	0 20.9	N 12 07.4	10 54.0	N 6 34.8	36 02.3	S 3 58.0	340 20.2	N 17 29.9	42 29.2	S 7 11.9	205 37.6	S 0 47.4	54.2				
13	45 05.5	15 21.1	N 12 08.3	25 53.6	N 6 36.0	51 03.0	S 3 57.2	355 22.1	N 17 30.0	57 31.4	S 7 11.8	220 13.9	S 1 01.6	54.2	Alphecca	126 03.9	N 26 37.8	
14	60 08.0	30 21.2	N 12 09.1	40 53.2	N 6 37.2	66 03.7	S 3 56.5	10 24.0	N 17 30.2	72 33.7	S 7 11.7	234 50.2	S 1 15.8	54.2	Alpheratz	357 35.8	N 29 13.3	
15	75 10.4	45 21.3	N 12 09.9	55 52.8	N 6 38.4	81 04.4	S 3 55.7	25 25.9	N 17 30.3	87 35.9	S 7 11.6	249 26.4	S 1 30.0	54.2	Altair	602 00.6	N 8 55.7	
16	90 12.9	60 21.4	N 12 10.8	70 52.4	N 6 39.6	96 05.1	S 3 54.9	40 27.8	N 17 30.5	102 38.2	S 7 11.5	264 02.7	S 1 44.2	54.2	Ankaa	353 08.2	S 42 10.5	
17	105 15.4	75 21.6	N 12 11.6	85 52.0	N 6 40.8	111 05.8	S 3 54.2	55 29.6	N 17 30.7	117 40.4	S 7 11.4	278 39.0	S 1 58.5	54.2	Antares	112 16.3	S 26 29.2	
18	120 17.8	90 21.7	N 12 12.5	100 51.6	N 6 42.0	126 06.4	S 3 53.4	70 31.5	N 17 30.8	132 42.6	S 7 11.3	293 15.2	S 2 12.7	54.2				
19	135 20.3	105 21.8	N 12 13.3	115 51.2	N 6 43.2	141 07.1	S 3 52.6	85 33.4	N 17 31.0	147 44.9	S 7 11.2	307 51.4	S 2 26.9	54.2	Arcturus	145 48.1	N 19 03.2	
20	150 22.8	120 21.9	N 12 14.1	130 50.8	N 6 44.4	156 07.8	S 3 51.9	100 35.3	N 17 31.1	162 47.1	S 7 11.2	322 27.6	S 2 41.1	54.2	Atria	107 10.8	S 69 04.1	
21	165 25.2	135 22.1	N 12 15.0	145 50.4	N 6 45.6	171 08.5	S 3 51.1	115 37.2	N 17 31.3	177 49.3	S 7 11.1	337 03.8	S 2 55.3	54.2	Avior	234 14.9	S 59 35.5	
22	180 27.7	150 22.2	N 12 15.8	160 50.0	N 6 46.7	186 09.2	S 3 50.3	130 39.1	N 17 31.4	192 51.6	S 7 11.0	351 39.9	S 3 09.5	54.3	Bellatrix	278 23.8	N 6 22.2	
23	195 30.2	165 22.3	N 12 16.7	175 49.6	N 6 47.9	201 09.8	S 3 49.6	145 40.9	N 17 31.6	207 53.8	S 7 10.9	6 16.1	S 3 23.7	54.3	Betelgeuse	270 52.9	N 7 24.6	
22 00	210 32.6	180 22.4	N 12 17.5	190 49.2	N 6 49.1	216 10.5	S 3 48.8	160 42.8	N 17 31.7	222 56.1	S 7 10.8	20 52.2	S 3 37.9	54.3	Canopus	263 52.9	S 52 42.7	
01	225 35.1	195 22.5	N 12 18.3	205 48.8	N 6 50.3	231 11.2	S 3 48.1	175 44.7	N 17 31.9	237 58.3	S 7 10.7	35 28.3	S 3 52.1	54.3	Capella	280 23.1	N 46 01.4	
02	240 37.6	210 22.7	N 12 19.2	220 48.4	N 6 51.5	246 11.9	S 3 47.3	190 46.6	N 17 32.0	253 00.5	S 7 10.6	50 04.3	S 4 06.3	54.3	Castor	245 57.9	N 31 50.2	
03	255 40.0	225 22.8	N 12 20.0	235 48.0	N 6 52.7	261 12.6	S 3 46.5	205 48.5	N 17 32.2	268 02.8	S 7 10.5	64 40.4	S 4 20.5	54.3	Deneb	49 26.3	N 45 21.6	
04	270 42.5	240 22.9	N 12 20.8	250 47.6	N 6 53.9	276 13.3	S 3 45.8	220 50.4	N 17 32.3	283 05.0	S 7 10.5	79 16.4	S 4 34.6	54.3	Denebola	182 25.3	N 14 26.1	
05	285 44.9	255 23.0	N 12 21.7	265 47.2	N 6 55.1	291 14.0	S 3 45.0	235 52.2	N 17 32.5	298 07.2	S 7 10.4	93 52.4	S 4 48.8	54.3				
06	300 47.4	270 23.1	N 12 22.5	280 46.8	N 6 56.2	306 14.6	S 3 44.2	250 54.1	N 17 32.6	313 09.5	S 7 10.3	108 28.3	S 5 02.9	54.3	Diphda	348 48.2	S 17 51.3	
07	315 49.9	285 23.3	N 12 23.4	295 46.4	N 6 57.4	321 15.3	S 3 43.5	265 56.0	N 17 32.8	328 11.7	S 7 10.2	123 04.2	S 5 17.0	54.3	Dubhe	193 41.2	N 61 37.4	
08	330 52.3	300 23.4	N 12 24.2	310 46.0	N 6 58.6	336 16.0	S 3 42.7	280 57.9	N 17 32.9	343 14.0	S 7 10.1	137 40.1	S 5 31.1	54.3	Elnath	278 02.9	N 28 37.7	
09	345 54.8	315 23.5	N 12 25.0	325 45.6	N 6 59.8	351 16.7	S 3 41.9	295 59.8	N 17 33.1	358 16.2	S 7 10.0	152 16.0	S 5 45.2	54.4	Etamin	90 42.2	N 51 28.8	
10	0 57.3	330 23.6	N 12 25.9	340 45.2	N 7 01.0	6 17.4	S 3 41.2	311 01.7	N 17 33.2	13 18.4	S 7 09.9	166 51.8	S 5 59.3	54.4	Enif	33 39.6	N 9 59.0	
11	15 59.7	345 23.7	N 12 26.7	355 44.8	N 7 02.2	21 18.1	S 3 40.4	326 03.5	N 17 33.4	28 20.7	S 7 09.9	181 27.6	S 6 13.4	54.4				
12	31 02.2	0 23.9	N 12 27.5	10 44.4	N 7 03.4	36 18.7	S 3 39.6	341 05.4	N 17 33.5	43 22.9	S 7 09.8	196 03.4	S 6 27.4	54.4	Fomalhaut	15 15.5	S 29 29.7	
13	46 04.7	15 24.0	N 12 28.4	25 44.0	N 7 04.5	51 19.4	S 3 38.9	356 07.3	N 17 33.7	58 25.1	S 7 09.7	210 39.1	S 6 41.5	54.4	Gacrux	171 51.8	S 57 15.1	
14	61 07.1	30 24.1	N 12 29.2	40 43.6	N 7 05.7	66 20.1	S 3 38.1	11 09.2	N 17 33.8	73 27.4	S 7 09.6	225 14.8	S 6 55.5	54.4	Gienah	175 43.9	S 17 40.7	
15	76 09.6	45 24.2	N 12 30.0	55 43.2	N 7 06.9	81 20.8	S 3 37.3	26 11.1	N 17 34.0	88 29.6	S 7 09.5	239 50.4	S 7 09.5	54.4	Hadar	148 36.3	S 60 29.4	
16	91 12.0	60 24.3	N 12 30.9	70 42.8	N 7 08.1	96 21.5	S 3 36.6	41 12.9	N 17 34.1	103 31.9	S 7 09.4	254 26.0	S 7 23.4	54.4	Hamal	327 52.3	N 23 34.5	
17	106 14.5	75 24.5	N 12 31.7	85 42.4	N 7 09.3	111 22.2	S 3 35.8	56 14.8	N 17 34.3	118 34.1	S 7 09.3	269 01.6	S 7 37.4	54.4				
18	121 17.0	90 24.6	N 12 32.5	100 41.9	N 7 10.5	126 22.8	S 3 35.1	71 16.7	N 17 34.5	133 36.3	S 7 09.2	283 37.1	S 7 51.3	54.5	Kaus aust.	83 33.2	S 34 22.3	
19	136 19.4	105 24.7	N 12 33.4	115 41.5	N 7 11.6	141 23.5	S 3 34.3	86 18.6	N 17 34.6	148 38.6	S 7 09.2	298 12.6	S 8 05.2	54.5	Kochab	137 18.6	N 74 03.2	
20	151 21.9	120 24.8	N 12 34.2	130 41.1	N 7 12.8	156 24.2	S 3 33.5	101 20.5	N 17 34.8	163 40.8	S 7 09.1	312 48.0	S 8 19.1	54.5	Markab	13 30.8	N 15 19.9	
21	166 24.4	135 24.9	N 12 35.0	145 40.7	N 7 14.0	171 24.9	S 3 32.8	116 22.4	N 17 34.9	178 43.1	S 7 09.0	327 23.4	S 8 33.0	54.5	Menkar	314 07.1	N 4 11.0	
22	181 26.8	150 25.0	N 12 35.9	160 40.3	N 7 15.2	186 25.6	S 3 32.0	131 24.2	N 17 35.1	193 45.3	S 7 08.9	341 58.7	S 8 46.8	54.5	Menkent	147 58.0	S 36 29.4	
23	196 29.3	165 25.2	N 12 36.7	175 39.9	N 7 16.4	201 26.3	S 3 31.2	146 26.1	N 17 35.2	208 47.5	S 7 08.8	356 34.0	S 9 00.6	54.5				
23 00	211 31.8	180 25.3	N 12 37.5	190 39.5	N 7 17.6	216 27.0	S 3 30.5	161 28.0	N 17 35.4	223 49.8	S 7 08.7	11 09.3	S 9 14.4	54.5	Miaplacidus	221 38.2	S 69 49.2	
01	226 34.2	195 25.4	N 12 38.3	205 39.1	N 7 18.7	231 27.6	S 3 29.7	176 29.9	N 17 35.5	238 52.0	S 7 08.6	25 44.5	S 9 28.2	54.5	Mirfak	308 29.6	N 49 56.8	
02	241 36.7	210 25.5	N 12 3															

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	APRILE	19
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
24 00	212 30.9	180 28.0	N 12 57.3	190 29.7	N 7 45.8	216 43.4	S 3 12.1	162 13.1	N 17 39.0	224 43.6	S 7 06.7	0 58.4	S 14 34.8	54.9	NOME	360	- AR	Dec.
01	227 33.4	195 28.1	N 12 58.1	205 29.3	N 7 47.0	231 44.1	S 3 11.3	177 15.0	N 17 39.1	239 45.8	S 7 06.6	15 32.2	S 14 47.6	54.9	Acamar	315 12.6	S 40 12.6	
02	242 35.8	210 28.2	N 12 59.0	220 28.9	N 7 48.2	246 44.8	S 3 10.6	192 16.9	N 17 39.3	254 48.0	S 7 06.5	30 05.9	S 15 00.3	54.9	Achernar	335 21.2	S 57 06.8	
03	257 38.3	225 28.4	N 12 59.8	235 28.5	N 7 49.3	261 45.5	S 3 09.8	207 18.8	N 17 39.4	269 50.3	S 7 06.4	44 39.5	S 15 13.0	54.9	Acruz	173 00.2	S 63 14.2	
04	272 40.8	240 28.5	N 13 00.6	250 28.1	N 7 50.5	276 46.2	S 3 09.0	222 20.7	N 17 39.6	284 52.5	S 7 06.3	59 13.0	S 15 25.7	54.9	Adhara	255 06.5	S 29 00.5	
05	287 43.2	255 28.6	N 13 01.4	265 27.7	N 7 51.7	291 46.9	S 3 08.3	237 22.5	N 17 39.7	299 54.8	S 7 06.2	73 46.4	S 15 38.3	54.9	Aldebaran	290 40.6	N 16 33.4	
06	302 45.7	270 28.7	N 13 02.2	280 27.3	N 7 52.9	306 47.5	S 3 07.5	252 24.4	N 17 39.9	314 57.0	S 7 06.2	88 19.8	S 15 50.8	54.9				
07	317 48.1	285 28.8	N 13 03.1	295 26.8	N 7 54.0	321 48.2	S 3 06.7	267 26.3	N 17 40.0	329 59.2	S 7 06.1	102 53.1	S 16 03.3	55.0	Alioth	166 12.9	N 55 49.7	
08	332 50.6	300 28.9	N 13 03.9	310 26.4	N 7 55.2	336 48.9	S 3 06.0	282 28.2	N 17 40.2	345 01.5	S 7 06.0	117 26.3	S 16 15.7	55.0	Alkaid	152 52.0	N 49 11.5	
09	347 53.1	315 29.0	N 13 04.7	325 26.0	N 7 56.4	351 49.6	S 3 05.2	297 30.1	N 17 40.4	0 03.7	S 7 05.9	131 59.5	S 16 28.0	55.0	Alnair	27 33.9	S 46 50.5	
10	2 55.5	330 29.1	N 13 05.5	340 25.6	N 7 57.6	6 50.3	S 3 04.4	312 31.9	N 17 40.5	15 06.0	S 7 05.8	146 32.5	S 16 40.3	55.0	Alnilam	275 38.6	S 1 11.3	
11	17 58.0	345 29.2	N 13 06.3	355 25.8	N 7 58.7	21 51.0	S 3 03.7	327 33.8	N 17 40.7	30 08.2	S 7 05.7	161 05.5	S 16 52.6	55.0	Alphard	217 48.3	S 8 46.0	
12	33 00.5	0 29.3	N 13 07.1	10 24.8	N 7 59.9	36 51.7	S 3 02.9	342 35.7	N 17 40.8	45 10.5	S 7 05.7	175 38.4	S 17 04.7	55.0				
13	48 02.9	15 29.5	N 13 08.0	25 24.4	N 8 01.1	51 52.4	S 3 02.1	357 37.6	N 17 41.0	60 12.7	S 7 05.6	190 11.2	S 17 16.8	55.1	Alphecca	126 03.9	N 26 37.8	
14	63 05.4	30 29.6	N 13 08.8	40 24.0	N 8 02.2	66 53.0	S 3 01.4	12 39.4	N 17 41.1	75 14.9	S 7 05.5	204 44.0	S 17 28.9	55.1	Alpheratz	357 35.7	N 29 13.3	
15	78 07.9	45 29.7	N 13 09.6	55 23.5	N 8 03.4	81 53.7	S 3 00.6	27 41.3	N 17 41.3	90 17.2	S 7 05.4	219 16.6	S 17 40.8	55.1	Altair	62 00.5	N 8 55.7	
16	93 10.3	60 29.8	N 13 10.4	70 23.1	N 8 04.6	96 54.4	S 2 59.8	42 43.2	N 17 41.4	105 19.4	S 7 05.3	233 49.2	S 17 52.7	55.1	Ankaa	353 08.1	S 42 10.5	
17	108 12.8	75 29.9	N 13 11.2	85 22.7	N 8 05.8	111 55.1	S 2 59.1	57 45.1	N 17 41.6	120 21.7	S 7 05.2	248 21.7	S 18 04.6	55.1	Antares	112 16.3	S 26 29.2	
18	123 15.3	90 30.0	N 13 12.0	100 22.3	N 8 06.9	126 55.8	S 2 58.3	72 47.7	N 17 41.7	135 23.9	S 7 05.1	262 54.1	S 18 16.3	55.1				
19	138 17.7	105 30.1	N 13 12.8	115 21.9	N 8 08.1	141 56.5	S 2 57.5	87 48.0	N 17 41.9	150 26.2	S 7 05.1	277 26.4	S 18 28.0	55.2	Arcturus	145 48.1	N 19 03.2	
20	153 20.2	120 30.2	N 13 13.7	130 21.5	N 8 09.3	156 57.2	S 2 56.8	102 50.7	N 17 42.0	165 28.4	S 7 05.0	291 58.7	S 18 39.6	55.2	Atria	107 10.7	S 69 04.1	
21	168 22.6	135 30.3	N 13 14.5	145 21.0	N 8 10.4	171 57.9	S 2 56.0	117 52.6	N 17 42.2	180 30.7	S 7 04.9	306 30.8	S 18 51.2	55.2	Avior	234 15.0	S 59 35.5	
22	183 25.1	150 30.4	N 13 15.3	160 20.6	N 8 11.6	186 58.6	S 2 55.2	132 54.5	N 17 42.3	195 32.9	S 7 04.8	321 02.9	S 19 02.6	55.2	Bellatrix	278 23.8	N 6 22.2	
23	198 27.6	165 30.5	N 13 16.1	175 20.2	N 8 12.8	201 59.2	S 2 54.5	147 56.4	N 17 42.5	210 35.1	S 7 04.7	335 34.9	S 19 14.0	55.2	Betelgeuse	270 52.9	N 7 24.6	
25 00	213 30.0	180 30.6	N 13 16.9	190 19.8	N 8 13.9	216 59.9	S 2 53.7	162 58.2	N 17 42.6	225 37.4	S 7 04.6	350 06.7	S 19 25.3	55.2	Canopus	263 52.9	S 52 42.7	
01	228 32.5	195 30.8	N 13 17.7	205 19.4	N 8 15.1	232 00.6	S 2 52.9	178 00.1	N 17 42.8	240 39.6	S 7 04.6	4 38.5	S 19 36.5	55.3	Capella	280 23.1	N 46 01.4	
02	243 35.0	210 30.9	N 13 18.5	220 19.0	N 8 16.3	247 01.3	S 2 52.2	193 02.0	N 17 42.9	255 41.9	S 7 04.5	19 10.2	S 19 47.7	55.3	Castor	245 57.9	N 31 50.2	
03	258 37.4	225 31.0	N 13 19.3	235 18.5	N 8 17.4	262 02.0	S 2 51.4	208 03.9	N 17 43.1	270 44.1	S 7 04.4	33 41.9	S 19 58.8	55.3	Deneb	49 26.3	N 45 21.6	
04	273 39.9	240 31.1	N 13 20.2	250 18.1	N 8 18.6	277 02.7	S 2 50.6	223 05.7	N 17 43.2	285 46.4	S 7 04.3	48 13.4	S 20 09.8	55.3	Denebola	182 25.3	N 14 26.1	
05	288 42.4	255 31.2	N 13 21.0	265 17.7	N 8 19.8	292 03.4	S 2 49.9	238 07.6	N 17 43.4	300 48.6	S 7 04.2	62 44.8	S 20 20.7	55.3				
06	303 44.8	270 31.3	N 13 21.8	280 17.3	N 8 20.9	307 04.1	S 2 49.1	253 09.5	N 17 43.5	315 50.9	S 7 04.1	77 16.2	S 20 31.5	55.3	Diphda	348 48.2	S 17 51.3	
07	318 47.3	285 31.4	N 13 22.6	295 16.9	N 8 22.1	322 04.8	S 2 48.3	268 11.4	N 17 43.7	330 53.1	S 7 04.1	91 47.4	S 20 42.2	55.4	Dubhe	193 41.2	N 61 37.4	
08	333 49.8	300 31.5	N 13 23.4	310 16.5	N 8 23.3	337 05.4	S 2 47.6	283 13.3	N 17 43.8	345 55.3	S 7 04.0	106 18.6	S 20 52.9	55.4	Elnath	278 02.9	N 28 37.7	
09	348 52.2	315 31.6	N 13 24.2	325 16.0	N 8 24.4	352 06.1	S 2 46.8	298 15.1	N 17 44.0	0 57.6	S 7 03.9	120 49.6	S 21 03.4	55.4	Etamin	90 42.2	N 51 28.8	
10	3 54.7	330 31.7	N 13 25.0	340 15.6	N 8 25.6	7 06.8	S 2 46.0	313 17.0	N 17 44.1	15 59.8	S 7 03.8	135 20.6	S 21 13.9	55.4	Enif	33 39.5	N 9 59.0	
11	18 57.1	345 31.8	N 13 25.8	355 15.2	N 8 26.8	22 07.5	S 2 45.3	328 18.9	N 17 44.3	31 02.1	S 7 03.7	149 51.5	S 21 24.2	55.4				
12	33 59.6	0 31.9	N 13 26.6	10 14.8	N 8 27.9	37 08.2	S 2 44.5	343 20.8	N 17 44.4	46 04.3	S 7 03.6	164 22.3	S 21 34.5	55.4	Fomalhaut	15 15.4	S 29 29.6	
13	49 02.1	15 32.0	N 13 27.4	25 14.4	N 8 29.1	52 08.9	S 2 43.7	358 22.6	N 17 44.6	61 06.6	S 7 03.5	178 53.0	S 21 44.7	55.5	Gacrux	171 51.9	S 57 15.1	
14	64 04.5	30 32.1	N 13 28.2	40 13.9	N 8 30.2	67 09.6	S 2 43.0	13 24.5	N 17 44.7	76 08.8	S 7 03.5	193 23.6	S 21 54.8	55.5	Gienah	175 43.9	S 17 40.7	
15	79 07.0	45 32.2	N 13 29.0	55 13.5	N 8 31.4	82 10.3	S 2 42.2	28 26.4	N 17 44.9	91 11.1	S 7 03.4	207 54.1	S 22 04.8	55.5	Hadar	148 36.3	S 60 29.4	
16	94 09.5	60 32.3	N 13 29.9	70 13.1	N 8 32.6	97 11.0	S 2 41.4	43 28.3	N 17 45.0	106 13.3	S 7 03.3	222 24.5	S 22 14.7	55.5	Hamal	327 52.3	N 23 34.5	
17	109 11.9	75 32.4	N 13 30.7	85 12.7	N 8 33.7	112 11.6	S 2 40.7	58 30.2	N 17 45.2	121 15.5	S 7 03.2	236 54.8	S 22 24.5	55.5				
18	124 14.4	90 32.5	N 13 31.5	100 12.2	N 8 34.9	127 12.3	S 2 39.9	73 32.0	N 17 45.3	136 17.8	S 7 03.1	251 25.0	S 22 34.2	55.6	Kaus aust.	83 33.2	S 34 22.3	
19	139 16.9	105 32.6	N 13 32.3	115 11.8	N 8 36.1	142 13.0	S 2 39.1	88 33.9	N 17 45.5	151 20.0	S 7 03.0	265 55.2	S 22 43.8	55.6	Kochab	137 18.6	N 74 03.2	
20	154 19.3	120 32.7	N 13 33.1	130 11.4	N 8 37.2	157 13.7	S 2 38.4	103 35.8	N 17 45.6	166 22.3	S 7 03.0	280 25.2	S 22 53.3	55.6	Markab	13 30.8	N 15 19.9	
21	169 21.8	135 32.8	N 13 33.9	145 11.0	N 8 38.4	172 14.4	S 2 37.6	118 37.7	N 17 45.8	181 24.5	S 7 02.9	294 55.1	S 23 02.7	55.6	Menkar	314 07.1	N 4 11.0	
22	184 24.2	150 32.9	N 13 34.7	160 10.6	N 8 39.5	187 15.1	S 2 36.8	133 39.5	N 17 45.9	196 26.8	S 7 02.8	309 25.0	S 23 11.9	55.6	Menkent	147 58.0	S 36 29.5	
23	199 26.7	165 33.0	N 13 35.5	175 10.1	N 8 40.7	202 15.8	S 2 36.1	148 41.4	N 17 46.1	211 29.0	S 7 02.7	323 54.7	S 23 21.1	55.7				
26 00	214 29.2	180 33.1	N 13 36.3	190 09.7	N 8 41.9	217 16.5	S 2 35.3	163 43.3	N 17 46.2	226 31.3	S 7 02.6	338 24.4	S 23 30.2	55.7	Miaplacidus	221 38.2	S 69 49.3	
01	229 31.6	195 33.2	N 13 37.1	205 09.3	N 8 43.0	232 17.2	S 2 34.5	178 45.2	N 17 46.4	241 33.5	S 7 02.5	352 53.9	S 23 39.1	55.7	Mirfak	308 29.6	N 49 56.8	
0																		

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	APRILE	22
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
27 00	215 28.3	180 35.5	N 13 55.4	189 59.5	N 9 09.6	217 33.1	S 2 16.9	164 28.3	N 17 49.8	227 25.2	S 7 00.6	325 47.8	S 26 32.0	56.2	NOME	360	- AR	Dec.
01	230 30.8	195 35.6	N 13 56.2	204 59.0	N 9 10.7	232 33.8	S 2 16.1	179 30.2	N 17 50.0	242 27.5	S 7 00.6	340 15.2	S 26 38.0	56.2	Acamar	315 12.6	S 40 12.5	
02	245 33.2	210 35.7	N 13 57.0	219 58.6	N 9 11.9	247 34.4	S 2 15.3	194 32.1	N 17 50.1	257 29.7	S 7 00.5	354 42.4	S 26 43.8	56.2	Achernar	335 21.2	S 57 06.8	
03	260 35.7	225 35.8	N 13 57.8	234 58.2	N 9 13.0	262 35.1	S 2 14.6	209 33.9	N 17 50.3	272 32.0	S 7 00.4	9 09.6	S 26 49.5	56.2	Acruz	173 00.2	S 63 14.2	
04	275 38.2	240 35.9	N 13 58.6	249 57.8	N 9 14.2	277 35.8	S 2 13.8	224 35.8	N 17 50.4	287 34.2	S 7 00.3	23 36.7	S 26 55.0	56.2	Adhara	255 06.5	S 29 00.5	
05	290 40.6	255 36.0	N 13 59.4	264 57.3	N 9 15.3	292 36.5	S 2 13.0	239 37.7	N 17 50.6	302 36.5	S 7 00.2	38 03.7	S 27 00.4	56.3	Aldebaran	290 40.6	N 16 33.4	
06	305 43.1	270 36.1	N 14 00.2	279 56.9	N 9 16.5	307 37.2	S 2 12.3	254 39.6	N 17 50.7	317 38.7	S 7 00.2	52 30.7	S 27 05.6	56.3				
07	320 45.6	285 36.2	N 14 01.0	294 56.5	N 9 17.6	322 37.9	S 2 11.5	269 41.4	N 17 50.9	332 41.0	S 7 00.1	66 57.6	S 27 10.7	56.3	Alioth	166 12.9	N 55 49.7	
08	335 48.0	300 36.3	N 14 01.8	309 56.0	N 9 18.8	337 38.6	S 2 10.7	284 43.3	N 17 51.0	347 43.2	S 7 00.0	81 24.4	S 27 15.7	56.3	Alkaid	152 52.0	N 49 11.5	
09	350 50.5	315 36.4	N 14 02.6	324 55.6	N 9 19.9	352 39.3	S 2 10.0	299 45.2	N 17 51.2	2 45.5	S 6 59.9	95 51.1	S 27 20.5	56.3	Alnair	27 33.9	S 46 50.5	
10	5 53.0	330 36.5	N 14 03.4	339 55.2	N 9 21.1	7 40.0	S 2 09.2	314 47.1	N 17 51.3	17 47.7	S 6 59.8	110 17.7	S 27 25.1	56.4	Alnilam	275 38.6	S 1 11.3	
11	20 55.4	345 36.6	N 14 04.1	354 54.7	N 9 22.2	22 40.7	S 2 08.4	329 48.9	N 17 51.5	32 50.0	S 6 59.7	124 44.3	S 27 29.6	56.4	Alphard	217 48.3	S 8 45.9	
12	35 57.9	0 36.7	N 14 04.9	9 54.3	N 9 23.4	37 41.4	S 2 07.7	344 50.8	N 17 51.6	47 52.2	S 6 59.7	139 10.8	S 27 34.0	56.4				
13	51 00.4	15 36.8	N 14 05.7	24 53.9	N 9 24.5	52 42.1	S 2 06.9	359 52.7	N 17 51.8	62 54.5	S 6 59.6	153 37.2	S 27 38.2	56.4	Alphecca	126 03.9	N 26 37.8	
14	66 02.8	30 36.9	N 14 06.5	39 53.4	N 9 25.7	67 42.8	S 2 06.1	14 54.6	N 17 51.9	77 56.7	S 6 59.5	168 03.5	S 27 42.2	56.4	Alpheratz	357 35.7	N 29 13.3	
15	81 05.3	45 36.9	N 14 07.3	54 53.0	N 9 26.8	82 43.4	S 2 05.3	29 56.4	N 17 52.1	92 59.0	S 6 59.4	182 29.8	S 27 46.1	56.5	Altair	62 00.5	N 8 55.7	
16	96 07.7	60 37.0	N 14 08.1	69 52.6	N 9 28.0	97 44.1	S 2 04.6	44 58.3	N 17 52.2	108 01.2	S 6 59.3	196 56.0	S 27 49.9	56.5	Ankaa	353 08.1	S 42 10.5	
17	111 10.2	75 37.1	N 14 08.9	84 52.1	N 9 29.1	112 44.8	S 2 03.8	60 00.2	N 17 52.4	123 03.5	S 6 59.3	211 22.2	S 27 53.4	56.5	Antares	112 16.3	S 26 29.2	
18	126 12.7	90 37.2	N 14 09.7	99 51.7	N 9 30.3	127 45.5	S 2 03.0	75 02.1	N 17 52.5	138 05.7	S 6 59.2	225 48.3	S 27 56.9	56.5				
19	141 15.1	105 37.3	N 14 10.4	114 51.2	N 9 31.4	142 46.2	S 2 02.3	90 03.9	N 17 52.7	153 08.0	S 6 59.1	240 14.3	S 28 00.1	56.6	Arcturus	145 48.1	N 19 03.2	
20	156 17.6	120 37.4	N 14 11.2	129 50.8	N 9 32.6	157 46.9	S 2 01.5	105 05.8	N 17 52.8	168 10.2	S 6 59.0	254 40.2	S 28 03.2	56.6	Atria	107 10.7	S 69 04.1	
21	171 20.1	135 37.5	N 14 12.0	144 50.4	N 9 33.7	172 47.6	S 2 00.7	120 07.7	N 17 53.0	183 12.5	S 6 58.9	269 06.1	S 28 06.2	56.6	Avior	234 15.0	S 59 35.5	
22	186 22.5	150 37.6	N 14 12.8	159 49.9	N 9 34.8	187 48.3	S 2 00.0	135 09.6	N 17 53.1	198 14.7	S 6 58.8	283 32.0	S 28 09.0	56.6	Bellatrix	278 23.8	N 6 22.2	
23	201 25.0	165 37.7	N 14 13.6	174 49.5	N 9 36.0	202 49.0	S 1 59.2	150 11.4	N 17 53.2	213 17.0	S 6 58.8	297 57.8	S 28 11.6	56.6	Betelgeuse	270 53.0	N 7 24.6	
28 00	216 27.5	180 37.8	N 14 14.4	189 49.1	N 9 37.1	217 49.7	S 1 58.4	165 13.3	N 17 53.4	228 19.2	S 6 58.7	312 23.5	S 28 14.1	56.7	Canopus	263 52.9	S 52 42.7	
01	231 29.9	195 37.9	N 14 15.1	204 48.6	N 9 38.3	232 50.4	S 1 57.7	180 15.2	N 17 53.5	243 21.5	S 6 58.6	326 49.2	S 28 16.4	56.7	Capella	280 23.1	N 46 01.4	
02	246 32.4	210 38.0	N 14 15.9	219 48.2	N 9 39.4	247 51.1	S 1 56.9	195 17.1	N 17 53.7	258 23.7	S 6 58.5	341 14.8	S 28 18.5	56.7	Castor	245 57.9	N 31 50.2	
03	261 34.8	225 38.0	N 14 16.7	234 47.8	N 9 40.6	262 51.8	S 1 56.1	210 18.9	N 17 53.8	273 26.0	S 6 58.4	355 40.4	S 28 20.5	56.7	Deneb	49 26.3	N 45 21.6	
04	276 37.3	240 38.1	N 14 17.5	249 47.3	N 9 41.7	277 52.5	S 1 55.4	225 20.8	N 17 54.0	288 28.2	S 6 58.4	10 05.9	S 28 22.3	56.8	Denebola	182 25.3	N 14 26.1	
05	291 39.8	255 38.2	N 14 18.3	264 46.9	N 9 42.8	292 53.2	S 1 54.6	240 22.7	N 17 54.1	303 30.5	S 6 58.3	24 31.4	S 28 24.0	56.8				
06	306 42.2	270 38.3	N 14 19.1	279 46.4	N 9 44.0	307 53.8	S 1 53.8	255 24.6	N 17 54.3	318 32.7	S 6 58.2	38 56.8	S 28 25.5	56.8	Diphda	348 48.2	S 17 51.3	
07	321 44.7	285 38.4	N 14 19.8	294 46.0	N 9 45.1	322 54.5	S 1 53.1	270 26.4	N 17 54.4	333 35.0	S 6 58.1	53 22.2	S 28 26.8	56.8	Dubhe	193 41.3	N 61 37.4	
08	336 47.2	300 38.5	N 14 20.6	309 45.6	N 9 46.3	337 55.2	S 1 52.3	285 28.3	N 17 54.6	348 37.2	S 6 58.0	67 47.5	S 28 27.9	56.8	Elnath	278 02.9	N 28 37.7	
09	351 49.6	315 38.6	N 14 21.4	324 45.1	N 9 47.4	352 55.9	S 1 51.5	300 30.2	N 17 54.7	3 39.5	S 6 58.0	82 12.9	S 28 28.9	56.9	Etamin	90 42.2	N 51 28.8	
10	6 52.1	330 38.7	N 14 22.2	339 44.7	N 9 48.5	7 56.6	S 1 50.8	315 32.0	N 17 54.9	18 41.7	S 6 57.9	96 38.1	S 28 29.7	56.9	Enif	33 39.5	N 9 59.0	
11	21 54.6	345 38.8	N 14 23.0	354 44.2	N 9 49.7	22 57.3	S 1 50.0	330 33.9	N 17 55.0	33 44.0	S 6 57.8	111 03.4	S 28 30.4	56.9				
12	36 57.0	0 38.8	N 14 23.7	9 43.8	N 9 50.8	37 58.0	S 1 49.2	345 35.8	N 17 55.2	48 46.2	S 6 57.7	125 28.6	S 28 30.9	56.9	Fomalhaut	15 15.4	S 29 29.6	
13	51 59.5	15 38.9	N 14 24.5	24 43.4	N 9 51.9	52 58.7	S 1 48.5	0 37.7	N 17 55.3	63 48.5	S 6 57.6	139 53.7	S 28 31.2	57.0	Gacrux	171 51.9	S 57 15.1	
14	67 02.0	30 39.0	N 14 25.3	39 42.9	N 9 53.1	67 59.4	S 1 47.7	15 39.5	N 17 55.5	78 50.7	S 6 57.6	154 18.9	S 28 31.3	57.0	Gienah	175 43.9	S 17 40.7	
15	82 04.4	45 39.1	N 14 26.1	54 42.5	N 9 54.2	83 00.1	S 1 46.9	30 41.4	N 17 55.6	93 53.0	S 6 57.5	168 44.0	S 28 31.3	57.0	Hadar	148 36.3	S 60 29.5	
16	97 06.9	60 39.2	N 14 26.8	69 42.0	N 9 55.4	98 00.8	S 1 46.1	45 43.3	N 17 55.8	108 55.2	S 6 57.4	183 09.1	S 28 31.1	57.0	Hamal	327 52.3	N 23 34.5	
17	112 09.3	75 39.3	N 14 27.6	84 41.6	N 9 56.5	113 01.5	S 1 45.4	60 45.2	N 17 55.9	123 57.5	S 6 57.3	197 34.1	S 28 30.7	57.1				
18	127 11.8	90 39.4	N 14 28.4	99 41.1	N 9 57.6	128 02.2	S 1 44.6	75 47.0	N 17 56.1	138 59.7	S 6 57.2	211 59.2	S 28 30.1	57.1	Kaus aust.	83 33.1	S 34 22.3	
19	142 14.3	105 39.5	N 14 29.2	114 40.7	N 9 58.8	143 02.9	S 1 43.8	90 48.9	N 17 56.2	154 02.0	S 6 57.2	226 24.2	S 28 29.4	57.1	Kochab	137 18.5	N 74 03.2	
20	157 16.7	120 39.5	N 14 30.0	129 40.3	N 9 59.9	158 03.6	S 1 43.1	105 50.8	N 17 56.4	169 04.3	S 6 57.1	240 49.2	S 28 28.5	57.1	Markab	13 30.7	N 15 19.9	
21	172 19.2	135 39.6	N 14 30.7	144 39.8	N 10 01.0	173 04.3	S 1 42.3	120 52.6	N 17 56.5	184 06.5	S 6 57.0	255 14.2	S 28 27.5	57.2	Menkar	314 07.1	N 4 11.0	
22	187 21.7	150 39.7	N 14 31.5	159 39.4	N 10 02.2	188 05.0	S 1 41.5	135 54.5	N 17 56.7	199 08.8	S 6 56.9	269 39.2	S 28 26.3	57.2	Menkent	147 58.0	S 36 29.5	
23	202 24.1	165 39.8	N 14 32.3	174 38.9	N 10 03.3	203 05.6	S 1 40.8	150 56.4	N 17 56.8	214 11.0	S 6 56.8	284 04.1	S 28 24.8	57.2				
29 00	217 26.6	180 39.9	N 14 33.1	189 38.5	N 10 04.4	218 06.3	S 1 40.0	165 58.3	N 17 57.0	229 13.3	S 6 56.7	298 29.1	S 28 23.3	57.2	Miaplacidus	221 38.3	S 69 49.3	
01	232 29.1	195 40.0	N 14 33.8	204 38.0	N 10 05.6	233 07.0	S 1 39.2	181 00.1	N 17 57.1	244 15.5	S 6 56.7	312 54.0	S 28 21.5	57.2	Mirfak	308 29.6	N 49 56.8	

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	APRILE	25
d h	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	NOME	360	- AR	Dec.
30 00	218 25.7	180 41.9	N 14 51.5	189 27.7	N 10 31.5	218 23.0	S 1 21.6	166 43.2	N 18 00.5	230 07.4	S 6 54.8	284 29.4	S 26 53.8	57.8				
01	233 28.2	195 41.9	N 14 52.3	204 27.3	N 10 32.7	233 23.7	S 1 20.8	181 45.1	N 18 00.7	245 09.6	S 6 54.8	298 54.6	S 26 47.9	57.8	Acamar	315 12.6	S 40 12.5	
02	248 30.7	210 42.0	N 14 53.0	219 26.8	N 10 33.8	248 24.4	S 1 20.0	196 46.9	N 18 00.8	260 11.9	S 6 54.7	313 19.9	S 26 41.9	57.9	Achernar	335 21.2	S 57 06.8	
03	263 33.1	225 42.1	N 14 53.8	234 26.3	N 10 34.9	263 25.1	S 1 19.3	211 48.8	N 18 01.0	275 14.2	S 6 54.6	327 45.3	S 26 35.7	57.9	Acruux	173 00.2	S 63 14.2	
04	278 35.6	240 42.2	N 14 54.6	249 25.9	N 10 36.0	278 25.8	S 1 18.5	226 50.7	N 18 01.1	290 16.4	S 6 54.5	342 10.7	S 26 29.4	57.9	Adhara	255 06.5	S 29 00.5	
05	293 38.1	255 42.3	N 14 55.3	264 25.4	N 10 37.1	293 26.5	S 1 17.7	241 52.5	N 18 01.3	305 18.7	S 6 54.4	356 36.1	S 26 22.8	57.9	Aldebaran	290 40.6	N 16 33.4	
06	308 40.5	270 42.3	N 14 56.1	279 25.0	N 10 38.3	308 27.2	S 1 17.0	256 54.4	N 18 01.4	320 20.9	S 6 54.4	11 01.5	S 26 16.1	58.0				
07	323 43.0	285 42.4	N 14 56.8	294 24.5	N 10 39.4	323 27.9	S 1 16.2	271 56.3	N 18 01.6	335 23.2	S 6 54.3	25 27.0	S 26 09.3	58.0	Alioth	166 13.0	N 55 49.7	
08	338 45.5	300 42.5	N 14 57.6	309 24.1	N 10 40.5	338 28.6	S 1 15.4	286 58.2	N 18 01.7	350 25.4	S 6 54.2	39 52.6	S 26 02.3	58.0	Alkaid	152 52.0	N 49 11.5	
09	353 47.9	315 42.6	N 14 58.4	324 23.6	N 10 41.6	353 29.3	S 1 14.7	302 00.0	N 18 01.9	5 27.7	S 6 54.1	54 18.2	S 25 55.1	58.0	Alnair	27 33.9	S 46 50.5	
10	8 50.4	330 42.7	N 14 59.1	339 23.2	N 10 42.7	8 30.0	S 1 13.9	317 01.9	N 18 02.0	20 29.9	S 6 54.1	68 43.8	S 25 47.8	58.1	Alnilam	275 38.6	S 1 11.3	
11	23 52.8	345 42.7	N 14 59.9	354 22.7	N 10 43.9	23 30.7	S 1 13.1	332 03.8	N 18 02.1	35 32.2	S 6 54.0	83 09.5	S 25 40.3	58.1	Alphard	217 48.3	S 8 45.9	
12	38 55.3	0 42.8	N 15 00.6	9 22.3	N 10 45.0	38 31.4	S 1 12.4	347 05.6	N 18 02.3	50 34.5	S 6 53.9	97 35.2	S 25 32.6	58.1				
13	53 57.8	15 42.9	N 15 01.4	24 21.8	N 10 46.1	53 32.1	S 1 11.6	2 07.5	N 18 02.4	65 36.7	S 6 53.8	112 01.0	S 25 24.8	58.1	Alphecca	126 03.9	N 26 37.8	
14	69 00.2	30 43.0	N 15 02.2	39 21.3	N 10 47.2	68 32.8	S 1 10.8	17 09.4	N 18 02.6	80 39.0	S 6 53.7	126 26.8	S 25 16.9	58.2	Alpheratz	357 35.7	N 29 13.3	
15	84 02.7	45 43.0	N 15 02.9	54 20.9	N 10 48.3	83 33.5	S 1 10.1	32 11.3	N 18 02.7	95 41.2	S 6 53.7	140 52.7	S 25 08.7	58.2	Altair	62 00.5	N 8 55.7	
16	99 05.2	60 43.1	N 15 03.7	69 20.4	N 10 49.5	98 34.2	S 1 09.3	47 13.1	N 18 02.9	110 43.5	S 6 53.6	155 18.6	S 25 00.4	58.2	Ankaa	353 08.1	S 42 10.5	
17	114 07.6	75 43.2	N 15 04.4	84 20.0	N 10 50.6	113 34.9	S 1 08.5	62 15.0	N 18 03.0	125 45.8	S 6 53.5	169 44.6	S 24 52.0	58.2	Antares	112 16.3	S 26 29.2	
18	129 10.1	90 43.3	N 15 05.2	99 19.5	N 10 51.7	128 35.6	S 1 07.7	77 16.9	N 18 03.2	140 48.0	S 6 53.4	184 10.6	S 24 43.4	58.3				
19	144 12.6	105 43.3	N 15 05.9	114 19.0	N 10 52.8	143 36.3	S 1 07.0	92 18.7	N 18 03.3	155 50.3	S 6 53.3	198 36.7	S 24 34.7	58.3	Arcturus	145 48.1	N 19 03.3	
20	159 15.0	120 43.4	N 15 06.7	129 18.6	N 10 53.9	158 37.0	S 1 06.2	107 20.6	N 18 03.5	170 52.5	S 6 53.3	213 02.8	S 24 25.7	58.3	Atria	107 10.7	S 69 04.1	
21	174 17.5	135 43.5	N 15 07.5	144 18.1	N 10 55.0	173 37.7	S 1 05.4	122 22.5	N 18 03.6	185 54.8	S 6 53.2	227 29.0	S 24 16.7	58.3	Avior	234 15.0	S 59 35.5	
22	189 20.0	150 43.6	N 15 08.2	159 17.7	N 10 56.1	188 38.4	S 1 04.7	137 24.3	N 18 03.8	200 57.0	S 6 53.1	241 55.3	S 24 07.5	58.4	Bellatrix	278 23.8	N 6 22.2	
23	204 22.4	165 43.6	N 15 09.0	174 17.2	N 10 57.3	203 39.1	S 1 03.9	152 26.2	N 18 03.9	215 59.3	S 6 53.0	256 21.6	S 23 58.1	58.4	Betelgeuse	270 53.0	N 7 24.6	
Mag																		
01 00	219 24.9	180 43.7	N 15 09.7	189 16.7	N 10 58.4	218 39.7	S 1 03.1	167 28.1	N 18 04.1	231 01.6	S 6 53.0	270 48.0	S 23 48.6	58.4	Canopus	263 53.0	S 52 42.7	
01	234 27.3	195 43.8	N 15 10.5	204 16.3	N 10 59.5	233 40.4	S 1 02.4	182 30.0	N 18 04.2	246 03.8	S 6 52.9	285 14.4	S 23 39.0	58.4	Capella	280 23.2	N 46 01.4	
02	249 29.8	210 43.9	N 15 11.2	219 15.8	N 11 00.6	248 41.1	S 1 01.6	197 31.8	N 18 04.4	261 06.1	S 6 52.8	299 40.9	S 23 29.2	58.5	Castor	245 57.9	N 31 50.2	
03	264 32.3	225 43.9	N 15 12.0	234 15.4	N 11 01.7	263 41.8	S 1 00.8	212 33.7	N 18 04.5	276 08.3	S 6 52.7	314 07.4	S 23 19.2	58.5	Deneb	49 26.3	N 45 21.6	
04	279 34.7	240 44.0	N 15 12.7	249 14.9	N 11 02.8	278 42.5	S 1 00.1	227 35.6	N 18 04.7	291 10.6	S 6 52.6	328 34.0	S 23 09.2	58.5	Denebola	182 25.3	N 14 26.1	
05	294 37.2	255 44.1	N 15 13.5	264 14.4	N 11 03.9	293 43.2	S 0 59.3	242 37.4	N 18 04.8	306 12.9	S 6 52.6	343 00.7	S 22 58.9	58.5				
06	309 39.7	270 44.2	N 15 14.2	279 14.0	N 11 05.0	308 43.9	S 0 58.5	257 39.3	N 18 04.9	321 15.1	S 6 52.5	357 27.4	S 22 48.5	58.6	Diphda	348 48.2	S 17 51.3	
07	324 42.1	285 44.2	N 15 15.0	294 13.5	N 11 06.2	323 44.6	S 0 57.8	272 41.2	N 18 05.1	336 17.4	S 6 52.4	11 54.2	S 22 38.0	58.6	Dubhe	193 41.3	N 61 37.4	
08	339 44.6	300 44.3	N 15 15.7	309 13.0	N 11 07.3	338 45.3	S 0 57.0	287 43.0	N 18 05.2	351 19.6	S 6 52.3	26 21.1	S 22 27.4	58.6	Elnath	278 02.9	N 28 37.7	
09	354 47.1	315 44.4	N 15 16.5	324 12.6	N 11 08.4	353 46.0	S 0 56.2	302 44.9	N 18 05.4	6 21.9	S 6 52.3	40 48.0	S 22 16.6	58.6	Etamin	90 42.1	N 51 28.8	
10	9 49.5	330 44.4	N 15 17.2	339 12.1	N 11 09.5	8 46.7	S 0 55.5	317 46.8	N 18 05.5	21 24.1	S 6 52.2	55 14.9	S 22 05.6	58.7	Enif	33 39.5	N 9 59.0	
11	24 52.0	345 44.5	N 15 18.0	354 11.7	N 11 10.6	23 47.4	S 0 54.7	332 48.7	N 18 05.7	36 26.4	S 6 52.1	69 42.0	S 21 54.6	58.7				
12	39 54.4	0 44.6	N 15 18.7	9 11.2	N 11 11.7	38 48.1	S 0 53.9	347 50.5	N 18 05.8	51 28.7	S 6 52.0	84 09.1	S 21 43.4	58.7	Fomalhaut	15 15.4	S 29 29.6	
13	54 56.9	15 44.7	N 15 19.5	24 10.7	N 11 12.8	53 48.8	S 0 53.2	2 52.4	N 18 06.0	66 30.9	S 6 51.9	98 36.2	S 21 32.0	58.7	Gacrux	171 51.9	S 57 15.1	
14	69 59.4	30 44.7	N 15 20.2	39 10.3	N 11 13.9	68 49.5	S 0 52.4	17 54.3	N 18 06.1	81 33.2	S 6 51.9	113 03.5	S 21 20.6	58.8	Gienah	175 44.0	S 17 40.7	
15	85 01.8	45 44.8	N 15 21.0	54 09.8	N 11 15.0	83 50.2	S 0 51.6	32 56.1	N 18 06.3	96 35.4	S 6 51.8	127 30.7	S 21 09.0	58.8	Hadar	148 36.3	S 60 29.5	
16	100 04.3	60 44.9	N 15 21.7	69 09.3	N 11 16.1	98 50.9	S 0 50.9	47 58.0	N 18 06.4	111 37.7	S 6 51.7	141 58.1	S 20 57.2	58.8	Hamal	327 52.3	N 23 34.5	
17	115 06.8	75 44.9	N 15 22.5	84 08.9	N 11 17.2	113 51.6	S 0 50.1	62 59.9	N 18 06.6	126 40.0	S 6 51.6	156 25.5	S 20 45.4	58.8				
18	130 09.2	90 45.0	N 15 23.2	99 08.4	N 11 18.3	128 52.3	S 0 49.3	78 01.7	N 18 06.7	141 42.2	S 6 51.6	170 53.0	S 20 33.4	58.9	Kaus aust.	83 33.1	S 34 22.3	
19	145 11.7	105 45.1	N 15 24.0	114 07.9	N 11 19.4	143 53.0	S 0 48.6	93 03.6	N 18 06.9	156 44.5	S 6 51.5	185 20.5	S 20 21.2	58.9	Kochab	137 18.5	N 74 03.2	
20	160 14.2	120 45.1	N 15 24.7	129 07.5	N 11 20.6	158 53.7	S 0 47.8	108 05.5	N 18 07.0	171 46.7	S 6 51.4	199 48.1	S 20 09.0	58.9	Markab	13 30.7	N 15 19.9	
21	175 16.6	135 45.2	N 15 25.4	144 07.0	N 11 21.7	173 54.4	S 0 47.0	123 07.3	N 18 07.2	186 49.0	S 6 51.3	214 15.8	S 19 56.6	58.9	Menkar	314 07.1	N 4 11.0	
22	190 19.1	150 45.3	N 15 26.2	159 06.5	N 11 22.8	188 55.1	S 0 46.2	138 09.2	N 18 07.3	201 51.3	S 6 51.3	228 43.5	S 19 44.1	58.9	Menkent	147 58.0	S 36 29.5	
23	205 21.6	165 45.3	N 15 26.9	174 06.0	N 11 23.9	203 55.8	S 0 45.5	153 11.1	N 18 07.4	216 53.5	S 6 51.2	243 11.3	S 19 31.5	59.0				
02 00	220 24.0	180 45.4	N 15 27.7	189 05.6	N 11 25.0	218 56.5	S 0 44.7	168 13.0	N 18 07.6	231 55.8	S 6 51.1	257 39.1	S 19 18.8	59.0	Miaplacidus	221 38.3	S 69 49.3	
01	235 26.5	195 45.5	N 15 28.4	204 05.1	N 11 26.1	233 57.2	S 0 43.9											

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	APRILE	28
d h	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	'	NOME	360	- AR	Dec.
03 00	221 23.2	180 47.0	N 15 45.4	188 54.2	N 11 51.3	219 13.3	S 0 26.3	168 57.8	N 18 11.1	232 50.1	S 6 49.3	245 04.9	S 13 40.5	59.5				
01	226 25.6	195 47.0	N 15 46.1	203 53.7	N 11 52.4	234 14.0	S 0 25.5	183 59.7	N 18 11.2	247 52.4	S 6 49.2	259 34.1	S 13 25.2	59.6	Acamar	315 12.6	S 40 12.5	
02	251 28.1	210 47.1	N 15 46.8	218 53.2	N 11 53.5	249 14.7	S 0 24.8	199 01.5	N 18 11.4	262 54.6	S 6 49.1	274 03.4	S 13 09.8	59.6	Achernar	335 21.2	S 57 06.8	
03	266 30.5	225 47.2	N 15 47.6	233 52.8	N 11 54.6	264 15.4	S 0 24.0	214 03.4	N 18 11.5	277 56.9	S 6 49.0	288 32.7	S 12 54.4	59.6	AcruX	173 00.2	S 63 14.2	
04	281 33.0	240 47.2	N 15 48.3	248 52.3	N 11 55.7	279 16.1	S 0 23.2	229 05.3	N 18 11.7	292 59.1	S 6 49.0	303 02.0	S 12 38.8	59.6	Adhara	255 06.5	S 29 00.5	
05	296 35.5	255 47.3	N 15 49.0	263 51.8	N 11 56.7	294 16.8	S 0 22.5	244 07.1	N 18 11.8	308 01.4	S 6 48.9	317 31.5	S 12 23.2	59.6	Aldebaran	290 40.6	N 16 33.4	
06	311 37.9	270 47.3	N 15 49.8	278 51.3	N 11 57.8	309 17.5	S 0 21.7	259 09.0	N 18 12.0	323 03.7	S 6 48.8	332 00.9	S 12 07.5	59.7				
07	326 40.4	285 47.4	N 15 50.5	293 50.8	N 11 58.9	324 18.2	S 0 20.9	274 10.9	N 18 12.1	338 05.9	S 6 48.7	346 30.4	S 11 51.7	59.7	Alioth	166 13.0	N 55 49.8	
08	341 42.9	300 47.5	N 15 51.2	308 50.4	N 12 00.0	339 18.9	S 0 20.2	289 12.7	N 18 12.3	353 08.2	S 6 48.7	0 59.9	S 11 35.9	59.7	Alkaid	152 52.0	N 49 11.5	
09	356 45.3	315 47.5	N 15 52.0	323 49.9	N 12 01.1	354 19.6	S 0 19.4	304 14.6	N 18 12.4	8 10.5	S 6 48.6	15 29.5	S 11 19.9	59.7	Alnair	27 33.8	S 46 50.5	
10	11 47.8	330 47.6	N 15 52.7	338 49.4	N 12 02.2	9 20.3	S 0 18.6	319 16.5	N 18 12.6	23 12.7	S 6 48.5	29 59.1	S 11 03.9	59.7	Alnilam	275 38.6	S 1 11.3	
11	26 50.3	345 47.6	N 15 53.4	353 48.9	N 12 03.3	24 21.0	S 0 17.9	334 18.3	N 18 12.7	38 15.0	S 6 48.4	44 28.7	S 10 47.9	59.8	Alphard	217 48.3	S 8 45.9	
12	41 52.7	0 47.7	N 15 54.1	8 48.4	N 12 04.4	39 21.7	S 0 17.1	349 20.2	N 18 12.9	53 17.3	S 6 48.4	58 58.4	S 10 31.7	59.8				
13	56 55.2	15 47.8	N 15 54.9	23 48.0	N 12 05.4	54 22.4	S 0 16.3	4 22.1	N 18 13.0	68 19.5	S 6 48.3	73 28.1	S 10 15.5	59.8	Alphecca	126 03.9	N 26 37.8	
14	71 57.7	30 47.8	N 15 55.6	38 47.5	N 12 06.5	69 23.1	S 0 15.6	19 23.9	N 18 13.1	83 21.8	S 6 48.2	87 57.9	S 9 59.2	59.8	Alpheratz	357 35.7	N 29 13.3	
15	87 00.1	45 47.9	N 15 56.3	53 47.0	N 12 07.6	84 23.8	S 0 14.8	34 25.8	N 18 13.3	98 24.1	S 6 48.1	102 27.7	S 9 42.9	59.8	Altair	62 00.5	N 8 55.7	
16	102 02.6	60 47.9	N 15 57.0	68 46.5	N 12 08.7	99 24.5	S 0 14.0	49 27.7	N 18 13.4	113 26.3	S 6 48.1	116 57.5	S 9 26.5	59.9	Ankaa	353 08.1	S 42 10.4	
17	117 05.0	75 48.0	N 15 57.8	83 46.0	N 12 09.8	114 25.2	S 0 13.3	64 29.5	N 18 13.6	128 28.6	S 6 48.0	131 27.3	S 9 10.0	59.9	Antares	112 16.3	S 26 29.2	
18	132 07.5	90 48.1	N 15 58.5	98 45.5	N 12 10.9	129 25.9	S 0 12.5	79 31.4	N 18 13.7	143 30.9	S 6 47.9	145 57.2	S 8 53.5	59.9				
19	147 10.0	105 48.1	N 15 59.2	113 45.0	N 12 11.9	144 26.6	S 0 11.7	94 33.3	N 18 13.9	158 33.1	S 6 47.8	160 27.1	S 8 37.0	59.9	Arcturus	145 48.1	N 19 03.3	
20	162 12.4	120 48.2	N 15 59.9	128 44.6	N 12 13.0	159 27.3	S 0 11.0	109 35.1	N 18 14.0	173 35.4	S 6 47.8	174 57.0	S 8 20.3	59.9	Atria	107 10.6	S 69 04.1	
21	177 14.9	135 48.2	N 16 00.7	143 44.1	N 12 14.1	174 28.0	S 0 10.2	124 37.0	N 18 14.2	188 37.6	S 6 47.7	189 27.0	S 8 03.6	59.9	Avior	234 15.1	S 59 35.5	
22	192 17.4	150 48.3	N 16 01.4	158 43.6	N 12 15.2	189 28.7	S 0 09.4	139 38.9	N 18 14.3	203 39.9	S 6 47.6	203 57.0	S 7 46.9	60.0	Bellatrix	278 23.8	N 6 22.2	
23	207 19.8	165 48.3	N 16 02.1	173 43.1	N 12 16.3	204 29.4	S 0 08.7	154 40.7	N 18 14.5	218 42.2	S 6 47.5	218 27.0	S 7 30.1	60.0	Betelgeuse	270 53.0	N 7 24.6	
04 00	222 22.3	180 48.4	N 16 02.8	188 42.6	N 12 17.4	219 30.1	S 0 07.9	169 42.6	N 18 14.6	233 44.4	S 6 47.5	232 57.0	S 7 13.3	60.0	Canopus	263 53.0	S 52 42.7	
01	237 24.8	195 48.5	N 16 03.6	203 42.1	N 12 18.4	234 30.8	S 0 07.1	184 44.5	N 18 14.7	248 46.7	S 6 47.4	247 27.0	S 6 56.4	60.0	Capella	280 23.2	N 46 01.4	
02	252 27.2	210 48.5	N 16 04.3	218 41.6	N 12 19.5	249 31.5	S 0 06.4	199 46.3	N 18 14.9	263 49.0	S 6 47.3	261 57.1	S 6 39.4	60.0	Castor	245 57.9	N 31 50.2	
03	267 29.7	225 48.6	N 16 05.0	233 41.1	N 12 20.6	264 32.2	S 0 05.6	214 48.2	N 18 15.0	278 51.2	S 6 47.3	276 27.2	S 6 22.5	60.0	Deneb	49 26.2	N 45 21.7	
04	282 32.2	240 48.6	N 16 05.7	248 40.7	N 12 21.7	279 32.9	S 0 04.8	229 50.1	N 18 15.2	293 53.5	S 6 47.2	290 57.3	S 6 05.4	60.0	Denebola	182 25.3	N 44 26.2	
05	297 34.6	255 48.7	N 16 06.4	263 40.2	N 12 22.7	294 33.6	S 0 04.1	244 51.9	N 18 15.3	308 55.8	S 6 47.1	305 27.4	S 5 48.4	60.1				
06	312 37.1	270 48.7	N 16 07.2	278 39.7	N 12 23.8	309 34.3	S 0 03.3	259 53.8	N 18 15.5	323 58.0	S 6 47.0	319 57.5	S 5 31.3	60.1	Diphda	348 48.2	S 17 51.3	
07	327 39.5	285 48.8	N 16 07.9	293 39.2	N 12 24.9	324 35.0	S 0 02.5	274 55.7	N 18 15.6	339 00.3	S 6 47.0	334 27.7	S 5 14.1	60.1	Dubhe	193 41.3	N 61 37.4	
08	342 42.0	300 48.8	N 16 08.6	308 38.7	N 12 26.0	339 35.7	S 0 01.8	289 57.5	N 18 15.8	354 02.6	S 6 46.9	348 57.8	S 4 56.9	60.1	Elnath	278 02.9	N 28 37.7	
09	357 44.5	315 48.9	N 16 09.3	323 38.2	N 12 27.0	354 36.4	S 0 01.0	304 59.4	N 18 15.9	9 04.8	S 6 46.8	3 28.0	S 4 39.7	60.1	Etamin	90 42.1	N 51 28.8	
10	12 46.9	330 48.9	N 16 10.0	338 37.7	N 12 28.1	9 37.1	S 0 00.2	320 01.3	N 18 16.1	24 07.1	S 6 46.7	17 58.2	S 4 22.5	60.1	Enif	33 39.5	N 9 59.0	
11	27 49.4	345 49.0	N 16 10.7	353 37.2	N 12 29.2	24 37.8	N 0 00.5	335 03.1	N 18 16.2	39 09.4	S 6 46.7	32 28.4	S 4 05.2	60.1				
12	42 51.9	0 49.1	N 16 11.5	8 36.7	N 12 30.3	39 38.5	N 0 01.3	350 05.3	N 18 16.3	54 11.6	S 6 46.6	46 58.6	S 3 47.9	60.2	Fomalhaut	15 15.4	S 29 29.6	
13	57 54.3	15 49.1	N 16 12.2	23 36.2	N 12 31.3	54 39.2	N 0 02.1	5 06.9	N 18 16.5	69 13.9	S 6 46.5	61 28.8	S 3 30.6	60.2	Gacrux	171 51.9	S 57 15.1	
14	72 56.8	30 49.2	N 16 12.9	38 35.7	N 12 32.4	69 39.9	N 0 02.8	20 08.7	N 18 16.6	84 16.2	S 6 46.4	75 59.0	S 3 13.2	60.2	Gienah	175 44.0	S 17 40.7	
15	87 59.3	45 49.2	N 16 13.6	53 35.3	N 12 33.5	84 40.6	N 0 03.6	35 10.6	N 18 16.8	99 18.5	S 6 46.4	90 29.2	S 2 55.8	60.2	Hadar	148 36.3	S 60 29.5	
16	103 01.7	60 49.3	N 16 14.3	68 34.8	N 12 34.6	99 41.3	N 0 04.4	50 12.4	N 18 16.9	114 20.7	S 6 46.3	104 59.4	S 2 38.4	60.2	Hamal	327 52.2	N 23 34.5	
17	118 04.2	75 49.3	N 16 15.0	83 34.3	N 12 35.6	114 42.0	N 0 05.1	65 14.3	N 18 17.1	129 23.0	S 6 46.2	119 29.6	S 2 21.0	60.2				
18	133 06.6	90 49.4	N 16 15.7	98 33.8	N 12 36.7	129 42.7	N 0 05.9	80 16.2	N 18 17.2	144 25.3	S 6 46.1	133 59.8	S 2 03.5	60.2	Kaus aust.	83 33.1	S 34 22.3	
19	148 09.1	105 49.4	N 16 16.5	113 33.3	N 12 37.8	144 43.4	N 0 06.7	95 18.0	N 18 17.4	159 27.5	S 6 46.1	148 30.0	S 1 46.0	60.2	Kochab	137 18.5	N 74 03.2	
20	163 11.6	120 49.5	N 16 17.2	128 32.8	N 12 38.8	159 44.1	N 0 07.4	110 19.9	N 18 17.5	174 29.8	S 6 46.0	163 00.2	S 1 28.5	60.2	Markab	13 30.7	N 15 19.9	
21	178 14.0	135 49.5	N 16 17.9	143 32.3	N 12 39.9	174 44.8	N 0 08.2	125 21.6	N 18 17.6	189 32.1	S 6 45.9	177 30.4	S 1 11.0	60.3	Menkar	314 07.1	N 4 11.0	
22	193 16.5	150 49.6	N 16 18.6	158 31.8	N 12 41.0	189 45.5	N 0 09.0	140 23.8	N 18 17.8	204 34.3	S 6 45.8	192 00.6	S 0 53.5	60.3	Menkent	147 58.0	S 36 29.5	
23	208 19.0	165 49.6	N 16 19.3	173 31.3	N 12 42.0	204 46.2	N 0 09.7	155 25.5	N 18 17.9	219 36.6	S 6 45.8	206 30.8	S 0 36.0	60.3				
05 00	223 21.4	180 49.7	N 16 20.0	188 30.8	N 12 43.1	219 46.9	N 0 10.5	170 27.4	N 18 18.1	234 38.9	S 6 45.7	221 01.0	S 0 18.5	60.3	Miaplacidus	221 38.3	S 69 49.3	
01	238 23.9	195 49.7	N 16 20.7	203 30.3	N 12 44.2	234 47.6	N 0 11.3	185 29.2	N 18 18.2	249 41.1	S 6 45.6	235 31.3	S 0 00.9	60.3	Mirfak	308 29.6	N	

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	MAGGIO	01
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
06 00	224 20.6	180 50.8	N 16 36.9	188 18.8	N 13 08.6	220 03.7	N 0 28.9	171 12.1	N 18 21.5	235 33.4	S 6 44.0	208 59.4	N 6 40.6	60.4	NOME	360	- AR	Dec.
01	239 23.0	195 50.9	N 16 37.6	203 18.2	N 13 09.6	235 04.5	N 0 29.6	186 14.0	N 18 21.7	250 35.6	S 6 43.9	223 29.0	N 6 57.8	60.4	Acamar	315 12.6	S 40 12.5	
02	254 25.5	210 50.9	N 16 38.3	218 17.7	N 13 10.7	250 05.2	N 0 30.4	201 15.9	N 18 21.8	265 37.9	S 6 43.8	237 58.5	N 7 14.9	60.4	Achernar	335 21.2	S 57 06.8	
03	269 28.0	225 50.9	N 16 39.0	233 17.2	N 13 11.7	265 05.9	N 0 31.2	216 17.7	N 18 22.0	280 40.2	S 6 43.7	252 28.0	N 7 32.0	60.4	Acruar	173 00.2	S 63 14.2	
04	284 30.4	240 51.0	N 16 39.7	248 16.7	N 13 12.8	280 06.6	N 0 31.9	231 19.6	N 18 22.1	295 42.4	S 6 43.7	266 57.4	N 7 49.1	60.4	Adhara	255 06.5	S 29 00.5	
05	299 32.9	255 51.0	N 16 40.4	263 16.2	N 13 13.8	295 07.3	N 0 32.7	246 21.4	N 18 22.3	310 44.7	S 6 43.6	281 26.8	N 8 06.1	60.4	Aldebaran	290 40.6	N 16 33.4	
06	314 35.4	270 51.1	N 16 41.1	278 15.7	N 13 14.9	310 08.0	N 0 33.5	261 23.3	N 18 22.4	325 47.0	S 6 43.5	295 56.1	N 8 23.1	60.4				
07	329 37.8	285 51.1	N 16 41.8	293 15.2	N 13 15.9	325 08.7	N 0 34.2	276 25.2	N 18 22.5	340 49.3	S 6 43.5	310 25.4	N 8 40.0	60.4	Alioth	166 13.0	N 55 49.8	
08	344 40.3	300 51.2	N 16 42.5	308 14.7	N 13 17.0	340 09.4	N 0 35.0	291 27.0	N 18 22.7	355 51.5	S 6 43.4	324 54.7	N 8 56.9	60.4	Alkaid	152 52.0	N 49 11.5	
09	359 42.7	315 51.2	N 16 43.2	323 14.2	N 13 18.0	355 10.1	N 0 35.8	306 28.9	N 18 22.8	10 53.8	S 6 43.3	339 23.9	N 9 13.7	60.4	Alnair	27 33.8	S 46 50.5	
10	14 45.2	330 51.2	N 16 43.9	338 13.7	N 13 19.1	10 10.8	N 0 36.5	321 30.8	N 18 23.0	25 56.1	S 6 43.2	353 53.0	N 9 30.5	60.3	Alnilam	275 38.6	S 1 11.3	
11	29 47.7	345 51.3	N 16 44.6	353 13.2	N 13 20.1	25 11.5	N 0 37.3	336 32.6	N 18 23.1	40 58.3	S 6 43.2	8 22.1	N 9 47.2	60.3	Alphard	217 48.3	S 8 45.9	
12	44 50.1	0 51.3	N 16 45.3	8 12.6	N 13 21.2	40 12.2	N 0 38.1	351 34.5	N 18 23.3	56 00.6	S 6 43.1	22 51.1	N 10 03.9	60.3				
13	59 52.6	15 51.4	N 16 46.0	23 12.1	N 13 22.2	55 12.9	N 0 38.8	6 36.4	N 18 23.4	71 02.9	S 6 43.0	37 20.1	N 10 20.5	60.3	Alphecca	126 03.9	N 26 37.8	
14	74 55.1	30 51.4	N 16 46.7	38 11.6	N 13 23.3	70 13.6	N 0 39.6	21 38.2	N 18 23.6	86 05.2	S 6 43.0	51 49.1	N 10 37.1	60.3	Alpheratz	357 35.7	N 29 13.3	
15	89 57.5	45 51.4	N 16 47.4	53 11.1	N 13 24.3	85 14.3	N 0 40.4	36 40.1	N 18 23.7	101 07.4	S 6 42.9	66 18.0	N 10 53.5	60.3	Altair	62 00.4	N 8 55.8	
16	105 00.0	60 51.5	N 16 48.0	68 10.6	N 13 25.4	100 15.0	N 0 41.1	51 42.0	N 18 23.8	116 09.7	S 6 42.8	80 46.8	N 11 10.0	60.3	Ankaa	353 08.1	S 42 10.4	
17	120 02.5	75 51.5	N 16 48.7	83 10.1	N 13 26.4	115 15.7	N 0 41.9	66 43.8	N 18 24.0	131 12.0	S 6 42.7	95 15.6	N 11 26.3	60.3	Antares	112 16.2	S 26 29.2	
18	135 04.9	90 51.6	N 16 49.4	98 09.6	N 13 27.5	130 16.4	N 0 42.6	81 45.7	N 18 24.1	146 14.3	S 6 42.7	109 44.3	N 11 42.6	60.3				
19	150 07.4	105 51.6	N 16 50.1	113 09.1	N 13 28.5	145 17.1	N 0 43.4	96 47.5	N 18 24.3	161 16.5	S 6 42.6	124 12.9	N 11 58.8	60.3	Arcturus	145 48.1	N 19 03.3	
20	165 09.9	120 51.6	N 16 50.8	128 08.5	N 13 29.6	160 17.8	N 0 44.2	111 49.4	N 18 24.4	176 18.8	S 6 42.5	138 41.5	N 12 15.0	60.3	Atria	107 10.6	S 69 04.1	
21	180 12.3	135 51.7	N 16 51.5	143 08.0	N 13 30.6	175 18.5	N 0 44.9	126 51.3	N 18 24.6	191 21.1	S 6 42.5	153 10.1	N 12 31.1	60.3	Avior	234 15.1	S 59 35.5	
22	195 14.8	150 51.7	N 16 52.2	158 07.5	N 13 31.6	190 19.2	N 0 45.7	141 53.1	N 18 24.7	206 23.4	S 6 42.4	167 38.5	N 12 47.0	60.3	Bellatrix	278 23.8	N 6 22.2	
23	210 17.2	165 51.8	N 16 52.9	173 07.0	N 13 32.7	205 19.9	N 0 46.5	156 55.0	N 18 24.8	221 25.6	S 6 42.3	182 06.9	N 13 03.0	60.2	Betelgeuse	270 53.0	N 7 24.6	
07 00	225 19.7	180 51.8	N 16 53.6	188 06.5	N 13 33.7	220 20.6	N 0 47.2	171 56.9	N 18 25.0	236 27.9	S 6 42.2	196 35.3	N 13 18.8	60.2	Canopus	263 53.0	S 52 42.7	
01	240 22.2	195 51.8	N 16 54.2	203 06.0	N 13 34.8	235 21.3	N 0 48.0	186 58.7	N 18 25.1	251 30.2	S 6 42.2	211 03.6	N 13 34.6	60.2	Capella	280 23.2	N 46 01.4	
02	255 24.6	210 51.9	N 16 54.9	218 05.4	N 13 35.8	250 22.0	N 0 48.8	202 00.6	N 18 25.3	266 32.5	S 6 42.1	225 31.8	N 13 50.2	60.2	Castor	245 57.9	N 31 50.2	
03	270 27.1	225 51.9	N 16 55.6	233 04.9	N 13 36.8	265 22.7	N 0 49.5	217 02.4	N 18 25.4	281 34.7	S 6 42.0	240 00.0	N 14 05.8	60.2	Deneb	49 26.2	N 45 21.7	
04	285 29.6	240 51.9	N 16 56.3	248 04.4	N 13 37.9	280 23.4	N 0 50.3	232 04.3	N 18 25.6	296 37.0	S 6 42.0	254 28.1	N 14 21.3	60.2	Denebola	182 25.3	N 14 26.2	
05	300 32.0	255 52.0	N 16 57.0	263 03.9	N 13 38.9	295 24.1	N 0 51.1	247 06.2	N 18 25.7	311 39.3	S 6 41.9	268 56.1	N 14 36.7	60.2				
06	315 34.5	270 52.0	N 16 57.7	278 03.4	N 13 40.0	310 24.8	N 0 51.8	262 08.0	N 18 25.8	326 41.5	S 6 41.8	283 24.0	N 14 52.1	60.2	Diphda	348 48.2	S 17 51.3	
07	330 37.0	285 52.1	N 16 58.4	293 02.9	N 13 41.0	325 25.5	N 0 52.6	277 09.9	N 18 26.0	341 43.8	S 6 41.7	297 51.9	N 15 07.3	60.2	Dubhe	193 41.3	N 61 37.4	
08	345 39.4	300 52.1	N 16 59.0	308 02.3	N 13 42.0	340 26.3	N 0 53.3	292 11.8	N 18 26.1	356 46.1	S 6 41.7	312 19.8	N 15 22.4	60.1	Elnath	278 02.9	N 28 37.7	
09	0 41.9	315 52.1	N 16 59.7	323 01.8	N 13 43.1	355 27.0	N 0 54.1	307 13.6	N 18 26.3	11 48.4	S 6 41.6	326 47.5	N 15 37.5	60.1	Etamin	90 42.1	N 51 28.8	
10	15 44.3	330 52.2	N 17 00.4	338 01.3	N 13 44.1	10 27.7	N 0 54.9	322 15.5	N 18 26.4	26 50.7	S 6 41.5	341 15.2	N 15 52.4	60.1	Enif	33 39.5	N 9 59.0	
11	30 46.8	345 52.2	N 17 01.1	353 00.8	N 13 45.1	25 28.4	N 0 55.6	337 17.4	N 18 26.6	41 52.9	S 6 41.5	355 42.8	N 16 07.3	60.1				
12	45 49.3	0 52.2	N 17 01.8	8 00.2	N 13 46.2	40 29.1	N 0 56.4	352 19.2	N 18 26.7	56 55.2	S 6 41.4	10 10.4	N 16 22.0	60.1	Fomalhaut	15 15.3	S 29 29.6	
13	60 51.7	15 52.3	N 17 02.5	22 59.7	N 13 47.2	55 29.8	N 0 57.2	7 21.1	N 18 26.8	71 57.5	S 6 41.3	24 37.8	N 16 36.6	60.1	Gacrux	171 51.9	S 57 15.1	
14	75 54.2	30 52.3	N 17 03.1	37 59.2	N 13 48.2	70 30.5	N 0 57.9	22 22.9	N 18 27.0	86 59.8	S 6 41.3	39 05.3	N 16 51.2	60.0	Gienah	175 44.0	S 17 40.7	
15	90 56.7	45 52.3	N 17 03.8	52 58.7	N 13 49.3	85 31.2	N 0 58.7	37 24.8	N 18 27.1	102 02.0	S 6 41.2	53 32.6	N 17 05.6	60.0	Hadar	148 36.2	S 60 29.5	
16	105 59.1	60 52.4	N 17 04.5	67 58.2	N 13 50.3	100 31.9	N 0 59.5	52 26.7	N 18 27.3	117 04.3	S 6 41.1	67 59.9	N 17 19.9	60.0	Hamal	327 52.2	N 23 34.5	
17	121 01.6	75 52.4	N 17 05.2	82 57.6	N 13 51.3	115 32.6	N 1 00.2	67 28.5	N 18 27.4	132 06.6	S 6 41.0	82 27.1	N 17 34.1	60.0				
18	136 04.1	90 52.4	N 17 05.8	97 57.1	N 13 52.4	130 33.3	N 1 01.0	82 30.4	N 18 27.6	147 08.9	S 6 41.0	96 54.2	N 17 48.2	60.0	Kaus aust.	83 33.1	S 34 22.3	
19	151 06.5	105 52.5	N 17 06.5	112 56.6	N 13 53.4	145 34.0	N 1 01.7	97 32.3	N 18 27.7	162 11.1	S 6 40.9	111 21.2	N 18 02.2	60.0	Kochab	137 18.5	N 74 03.3	
20	166 09.0	120 52.5	N 17 07.2	127 56.1	N 13 54.4	160 34.7	N 1 02.5	112 34.1	N 18 27.8	177 13.4	S 6 40.8	125 48.2	N 18 16.0	59.9	Markab	13 30.7	N 15 20.0	
21	181 11.5	135 52.5	N 17 07.9	142 55.5	N 13 55.5	175 35.4	N 1 03.3	127 36.0	N 18 28.0	192 15.7	S 6 40.8	140 15.1	N 18 29.8	59.9	Menkar	314 07.1	N 4 11.0	
22	196 13.9	150 52.6	N 17 08.6	157 55.0	N 13 56.5	190 36.1	N 1 04.0	142 37.8	N 18 28.1	207 18.0	S 6 40.7	154 42.0	N 18 43.4	59.9	Menkent	147 57.9	S 36 29.5	
23	211 16.4	165 52.6	N 17 09.2	172 54.5	N 13 57.5	205 36.8	N 1 04.8	157 39.7	N 18 28.3	222 20.2	S 6 40.6	169 08.7	N 18 56.9	59.9				
08 00	226 18.8	180 52.6	N 17 09.9	187 54.0	N 13 58.5	220 37.5	N 1 05.6	172 41.6	N 18 28.4	237 22.5	S 6 40.6	183 35.4	N 19 10.3	59.9	Miaplacidus	221 38.4	S 69 49.3	
01	241 21.3	195 52.7	N 17 10.6	202 53.4	N 13 59.6	235 38.2	N 1 06.3	187 43.4	N 18 28.6	252 24.8	S 6 40.5	198 02.0	N 19 23.5	59.8	Mirfak	308 29		

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	MAGGIO	04
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
09 00	227 18.0	180 53.3	N 17 26.0	187 41.2	N 14 23.0	220 54.4	N 1 23.9	173 26.3	N 18 31.8	238 17.2	S 6 38.9	169 55.0	N 23 50.1	59.3	NOME	360	- AR	Dec.
01	242 20.4	195 53.4	N 17 26.6	202 40.7	N 14 24.0	235 55.1	N 1 24.6	188 28.1	N 18 32.0	253 19.5	S 6 38.8	184 20.0	N 23 59.9	59.2	Acamar	315 12.6	S 40 12.5	
02	257 22.9	210 53.4	N 17 27.3	217 40.1	N 14 25.0	250 55.8	N 1 25.4	203 30.0	N 18 32.1	268 21.8	S 6 38.8	198 45.0	N 24 09.5	59.2	Achernar	335 21.1	S 57 06.7	
03	272 25.4	225 53.4	N 17 28.0	232 39.6	N 14 26.1	265 56.6	N 1 26.1	218 31.8	N 18 32.2	283 24.0	S 6 38.7	213 09.9	N 24 19.0	59.2	AcruX	173 00.3	S 63 14.2	
04	287 27.8	240 53.4	N 17 28.6	247 39.0	N 14 27.1	280 57.3	N 1 26.9	233 33.7	N 18 32.4	298 26.3	S 6 38.6	227 34.7	N 24 28.3	59.2	Adhara	255 06.5	S 29 00.5	
05	302 30.3	255 53.5	N 17 29.3	262 38.5	N 14 28.1	295 58.0	N 1 27.7	248 35.6	N 18 32.5	313 28.6	S 6 38.6	241 59.5	N 24 37.4	59.1	Aldebaran	290 40.6	N 16 33.4	
06	317 32.8	270 53.5	N 17 29.9	277 38.0	N 14 29.1	310 58.7	N 1 28.4	263 37.4	N 18 32.7	328 30.9	S 6 38.5	256 24.2	N 24 46.4	59.1				
07	332 35.2	285 53.5	N 17 30.6	292 37.4	N 14 30.1	325 59.4	N 1 29.2	278 39.3	N 18 32.8	343 33.2	S 6 38.4	270 48.9	N 24 55.2	59.1	Alioth	166 13.0	N 55 49.8	
08	347 37.7	300 53.5	N 17 31.3	307 36.9	N 14 31.1	341 00.1	N 1 30.0	293 41.1	N 18 33.0	358 35.4	S 6 38.3	285 13.5	N 25 03.8	59.0	Alkaid	152 52.0	N 49 11.5	
09	2 40.2	315 53.6	N 17 31.9	322 36.3	N 14 32.1	356 00.8	N 1 30.7	308 43.0	N 18 33.1	13 37.7	S 6 38.3	299 38.1	N 25 12.3	59.0	Alnair	27 33.8	S 46 50.5	
10	17 42.6	330 53.6	N 17 32.6	337 35.8	N 14 33.1	11 01.5	N 1 31.5	323 44.9	N 18 33.2	28 40.0	S 6 38.2	314 02.7	N 25 20.6	59.0	Alnilam	275 38.6	S 1 11.3	
11	32 45.1	345 53.6	N 17 33.2	352 35.3	N 14 34.1	26 02.2	N 1 32.2	338 46.7	N 18 33.4	43 42.3	S 6 38.1	328 27.2	N 25 28.7	58.9	Alphard	217 48.3	S 8 45.9	
12	47 47.6	0 53.6	N 17 33.9	7 34.7	N 14 35.1	41 02.9	N 1 33.0	353 48.6	N 18 33.5	58 44.6	S 6 38.1	342 51.6	N 25 36.6	58.9				
13	62 50.0	15 53.7	N 17 34.6	22 34.2	N 14 36.1	56 03.6	N 1 33.8	8 50.5	N 18 33.7	73 46.8	S 6 38.0	357 16.0	N 25 44.4	58.9	Alphecca	126 03.9	N 26 37.8	
14	77 52.5	30 53.7	N 17 35.2	37 33.6	N 14 37.1	71 04.3	N 1 34.5	23 52.3	N 18 33.8	88 49.1	S 6 37.9	11 40.4	N 25 52.0	58.9	Alpheratz	357 35.7	N 29 13.3	
15	92 54.9	45 53.7	N 17 35.9	52 33.1	N 14 38.1	86 05.0	N 1 35.3	38 54.2	N 18 33.9	103 51.4	S 6 37.9	26 04.7	N 25 59.4	58.8	Altair	62 00.4	N 8 55.8	
16	107 57.4	60 53.7	N 17 36.5	67 32.5	N 14 39.2	101 05.7	N 1 36.0	53 56.0	N 18 34.1	118 53.7	S 6 37.8	40 29.0	N 26 06.7	58.8	Ankaa	353 08.1	S 42 10.4	
17	122 59.9	75 53.8	N 17 37.2	82 32.0	N 14 40.2	116 06.4	N 1 36.8	68 57.9	N 18 34.2	133 56.0	S 6 37.7	54 53.3	N 26 13.8	58.8	Antares	112 16.2	S 26 29.2	
18	138 02.3	90 53.8	N 17 37.8	97 31.5	N 14 41.2	131 07.1	N 1 37.6	83 59.8	N 18 34.4	148 58.3	S 6 37.7	69 17.5	N 26 20.7	58.7				
19	153 04.8	105 53.8	N 17 38.5	112 30.9	N 14 42.2	146 07.8	N 1 38.3	99 01.6	N 18 34.5	164 00.5	S 6 37.6	83 41.7	N 26 27.4	58.7	Arcturus	145 48.1	N 19 03.3	
20	168 07.3	120 53.8	N 17 39.1	127 30.4	N 14 43.2	161 08.5	N 1 39.1	114 03.5	N 18 34.7	179 02.8	S 6 37.5	98 05.9	N 26 33.9	58.7	Atria	107 10.5	S 69 04.2	
21	183 09.7	135 53.8	N 17 39.8	142 29.8	N 14 44.2	176 09.3	N 1 39.9	129 05.3	N 18 34.8	194 05.1	S 6 37.5	112 30.0	N 26 40.3	58.6	Avior	234 15.1	S 59 35.5	
22	198 12.2	150 53.9	N 17 40.4	157 29.3	N 14 45.2	191 10.0	N 1 40.6	144 07.2	N 18 34.9	209 07.4	S 6 37.4	126 54.1	N 26 46.5	58.6	Bellatrix	278 23.8	N 6 22.3	
23	213 14.7	165 53.9	N 17 41.1	172 28.7	N 14 46.2	206 10.7	N 1 41.4	159 09.1	N 18 35.1	224 09.7	S 6 37.3	141 18.2	N 26 52.5	58.6	Betelgeuse	270 53.0	N 7 24.7	
10 00	228 17.1	180 53.9	N 17 41.7	187 28.2	N 14 47.2	221 11.4	N 1 42.1	174 10.9	N 18 35.2	239 12.0	S 6 37.3	155 42.3	N 26 58.3	58.5	Canopus	263 53.0	S 52 42.7	
01	243 19.6	195 53.9	N 17 42.4	202 27.6	N 14 48.2	236 12.1	N 1 42.9	189 12.8	N 18 35.4	254 14.2	S 6 37.2	170 06.4	N 27 03.9	58.5	Capella	280 23.2	N 46 01.4	
02	258 22.1	210 53.9	N 17 43.1	217 27.1	N 14 49.1	251 12.8	N 1 43.7	204 14.6	N 18 35.5	269 16.5	S 6 37.1	184 30.4	N 27 09.4	58.5	Castor	245 58.0	N 31 50.2	
03	273 24.5	225 54.0	N 17 43.7	232 26.5	N 14 50.1	266 13.5	N 1 44.4	219 16.5	N 18 35.6	284 18.8	S 6 37.1	198 54.4	N 27 14.7	58.4	Deneb	49 26.2	N 45 21.7	
04	288 27.0	240 54.0	N 17 44.3	247 26.0	N 14 51.1	281 14.2	N 1 45.2	234 18.4	N 18 35.8	299 21.1	S 6 37.0	213 18.4	N 27 19.8	58.4	Denebola	182 25.3	N 44 26.2	
05	303 29.4	255 54.0	N 17 45.0	262 25.4	N 14 52.1	296 14.9	N 1 45.9	249 20.2	N 18 35.9	314 23.4	S 6 36.9	227 42.4	N 27 24.7	58.4				
06	318 31.9	270 54.0	N 17 45.6	277 24.9	N 14 53.1	311 15.6	N 1 46.7	264 22.1	N 18 36.1	329 25.7	S 6 36.9	242 06.4	N 27 29.4	58.3	Diphda	348 48.2	S 17 51.2	
07	333 34.4	285 54.0	N 17 46.3	292 24.3	N 14 54.1	326 16.3	N 1 47.5	279 23.9	N 18 36.2	344 27.9	S 6 36.8	256 30.4	N 27 34.0	58.3	Dubhe	193 41.3	N 61 37.4	
08	348 36.8	300 54.1	N 17 46.9	307 23.8	N 14 55.1	341 17.0	N 1 48.2	294 25.8	N 18 36.3	359 30.2	S 6 36.7	270 54.3	N 27 38.4	58.3	Elnath	278 02.9	N 28 37.7	
09	3 39.3	315 54.1	N 17 47.6	322 23.2	N 14 56.1	356 17.7	N 1 49.0	309 27.7	N 18 36.5	14 32.5	S 6 36.7	285 18.3	N 27 42.5	58.2	Etamin	90 42.1	N 51 28.8	
10	18 41.8	330 54.1	N 17 48.2	337 22.7	N 14 57.1	11 18.4	N 1 49.7	324 29.5	N 18 36.6	29 34.8	S 6 36.6	299 42.3	N 27 46.5	58.2	Enif	33 39.4	N 9 59.0	
11	33 44.2	345 54.1	N 17 48.9	352 22.1	N 14 58.1	26 19.1	N 1 50.5	339 31.4	N 18 36.8	44 37.1	S 6 36.5	314 06.3	N 27 50.4	58.2				
12	48 46.7	0 54.1	N 17 49.5	7 21.6	N 14 59.1	41 19.8	N 1 51.3	354 33.3	N 18 36.9	59 39.4	S 6 36.5	328 30.2	N 27 54.0	58.1	Fomalhaut	15 15.3	S 29 29.6	
13	63 49.2	15 54.2	N 17 50.2	22 21.0	N 15 00.1	56 20.6	N 1 52.0	9 35.1	N 18 37.0	74 41.6	S 6 36.4	342 54.2	N 27 57.5	58.1	Gacrux	171 51.9	S 57 15.2	
14	78 51.6	30 54.2	N 17 50.8	37 20.5	N 15 01.1	71 21.3	N 1 52.8	24 37.0	N 18 37.2	89 43.9	S 6 36.3	357 18.2	N 28 00.7	58.1	Gienah	175 44.0	S 17 40.7	
15	93 54.1	45 54.2	N 17 51.5	52 19.9	N 15 02.1	86 22.0	N 1 53.5	39 38.8	N 18 37.3	104 46.2	S 6 36.3	11 42.2	N 28 03.8	58.0	Hadar	148 36.2	S 60 29.5	
16	108 56.6	60 54.2	N 17 52.1	67 19.4	N 15 03.0	101 22.7	N 1 54.3	54 40.7	N 18 37.5	119 48.5	S 6 36.2	26 06.2	N 28 06.7	58.0	Hamal	327 52.2	N 23 34.5	
17	123 59.0	75 54.2	N 17 52.7	82 18.8	N 15 04.0	116 23.4	N 1 55.1	69 42.6	N 18 37.6	134 50.8	S 6 36.1	40 30.3	N 28 09.5	57.9				
18	139 01.5	90 54.2	N 17 53.4	97 18.3	N 15 05.0	131 24.1	N 1 55.8	84 44.4	N 18 37.7	149 53.1	S 6 36.1	54 54.3	N 28 12.0	57.9	Kaus aust.	83 33.0	S 34 22.3	
19	154 03.9	105 54.2	N 17 54.0	112 17.7	N 15 06.0	146 24.8	N 1 56.6	99 46.3	N 18 37.9	164 55.3	S 6 36.0	69 18.4	N 28 14.4	57.9	Kochab	137 18.5	N 74 03.3	
20	169 06.4	120 54.3	N 17 54.7	127 17.1	N 15 07.0	161 25.5	N 1 57.3	114 48.1	N 18 38.0	179 57.6	S 6 35.9	83 42.5	N 28 16.6	57.8	Markab	13 30.7	N 15 20.0	
21	184 08.9	135 54.3	N 17 55.3	142 16.6	N 15 08.0	176 26.2	N 1 58.1	129 50.0	N 18 38.2	194 59.9	S 6 35.9	98 06.6	N 28 18.6	57.8	Menkar	314 07.1	N 4 11.0	
22	199 11.3	150 54.3	N 17 55.9	157 16.0	N 15 09.0	191 26.9	N 1 58.9	144 51.9	N 18 38.3	210 02.2	S 6 35.8	112 30.7	N 28 20.4	57.8	Menkent	147 57.9	S 36 29.5	
23	214 13.8	165 54.3	N 17 56.6	172 15.5	N 15 09.9	206 27.6	N 1 59.6	159 53.7	N 18 38.4	225 04.5	S 6 35.7	126 54.9	N 28 22.0	57.7				
11 00	229 16.3	180 54.3	N 17 57.2	187 14.9	N 15 10.9	221 28.3	N 2 00.4	174 55.6	N 18 38.6	240 06.8	S 6 35.7	141 19.1	N 28 23.5	57.7	Miaplacidus	221 38.4	S 69 49.3	
01	244 18.7	195 54.3	N 17 57.9	202 14.4	N 15 11.9	236 29.0	N 2 01.1	189 57.7	N 18 38.7	255 09.1	S 6 35.6	155 43.4	N 28 24.7	57.7				

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	MAGGIO	07
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
12 00	230 15.4	180 54.6	N 18 12.4	187 01.4	N 15 34.3	221 45.3	N 2 18.6	175 40.2	N 18 41.9	241 01.7	S 6 34.1	127 14.7	N 28 05.9	56.9	NOME	360	- AR	Dec.
01	245 17.9	195 54.6	N 18 13.0	202 00.8	N 15 35.3	236 46.0	N 2 19.3	190 42.1	N 18 42.1	256 03.9	S 6 34.0	141 40.4	N 28 03.1	56.8	Acamar	315 12.6	S 40 12.5	
02	260 20.3	210 54.6	N 18 13.6	217 00.2	N 15 36.2	251 46.7	N 2 20.1	205 43.9	N 18 42.2	271 06.2	S 6 34.0	156 06.1	N 28 00.1	56.8	Achernar	335 21.1	S 57 06.7	
03	275 22.8	225 54.6	N 18 14.3	231 59.7	N 15 37.2	266 47.4	N 2 20.8	220 45.8	N 18 42.4	286 08.5	S 6 33.9	170 31.9	N 27 56.9	56.8	Acruar	173 00.3	S 63 14.2	
04	290 25.3	240 54.6	N 18 14.9	246 59.1	N 15 38.2	281 48.1	N 2 21.6	235 47.6	N 18 42.5	301 10.8	S 6 33.8	184 57.8	N 27 53.6	56.7	Adhara	255 06.5	S 29 00.5	
05	305 27.7	255 54.6	N 18 15.5	261 58.5	N 15 39.1	296 48.8	N 2 22.4	250 49.5	N 18 42.6	316 13.1	S 6 33.8	199 23.7	N 27 50.1	56.7	Aldebaran	290 40.6	N 16 33.4	
06	320 30.2	270 54.7	N 18 16.1	276 58.0	N 15 40.1	311 49.5	N 2 23.1	265 51.4	N 18 42.8	331 15.4	S 6 33.7	213 49.8	N 27 46.5	56.7				
07	335 32.7	285 54.7	N 18 16.8	291 57.4	N 15 41.1	326 50.2	N 2 23.9	280 53.2	N 18 42.9	346 17.7	S 6 33.7	228 15.9	N 27 42.7	56.6	Alioth	166 13.0	N 55 49.8	
08	350 35.1	300 54.7	N 18 17.4	306 56.8	N 15 42.0	341 51.0	N 2 24.6	295 55.1	N 18 43.1	1 20.0	S 6 33.6	242 42.2	N 27 38.8	56.6	Alkaid	152 52.0	N 49 11.5	
09	5 37.6	315 54.7	N 18 18.0	321 56.2	N 15 43.0	356 51.7	N 2 25.4	310 56.9	N 18 43.2	16 22.3	S 6 33.5	257 08.5	N 27 34.7	56.6	Alnair	27 33.7	S 46 50.5	
10	20 40.1	330 54.7	N 18 18.6	336 55.7	N 15 43.9	11 52.4	N 2 26.1	325 58.8	N 18 43.3	31 24.6	S 6 33.5	271 34.9	N 27 30.5	56.5	Alnilam	275 38.6	S 1 11.2	
11	35 42.5	345 54.7	N 18 19.3	351 55.1	N 15 44.9	26 53.1	N 2 26.9	341 00.7	N 18 43.5	46 26.8	S 6 33.4	286 01.4	N 27 26.1	56.5	Alphard	217 48.3	S 8 45.9	
12	50 45.0	0 54.7	N 18 19.9	6 54.5	N 15 45.9	41 53.8	N 2 27.7	356 02.5	N 18 43.6	61 29.1	S 6 33.3	300 28.0	N 27 21.6	56.5				
13	65 47.4	15 54.7	N 18 20.5	21 53.9	N 15 46.8	56 54.5	N 2 28.4	11 04.4	N 18 43.8	76 31.4	S 6 33.3	314 54.7	N 27 16.9	56.4	Alphecca	126 03.9	N 26 37.9	
14	80 49.9	30 54.7	N 18 21.1	36 53.4	N 15 47.8	71 55.2	N 2 29.2	26 06.2	N 18 43.9	91 33.7	S 6 33.2	329 21.5	N 27 12.1	56.4	Alpheratz	357 35.7	N 29 13.3	
15	95 52.4	45 54.7	N 18 21.7	51 52.8	N 15 48.7	86 55.9	N 2 29.9	41 08.1	N 18 44.0	106 36.0	S 6 33.1	343 48.4	N 27 07.1	56.4	Altair	62 00.4	N 8 55.8	
16	110 54.8	60 54.7	N 18 22.3	66 52.2	N 15 49.7	101 56.6	N 2 30.7	56 10.0	N 18 44.2	121 38.3	S 6 33.1	358 15.3	N 27 02.0	56.3	Ankaa	353 08.0	S 42 10.4	
17	125 57.3	75 54.7	N 18 23.0	81 51.6	N 15 50.6	116 57.3	N 2 31.4	71 11.8	N 18 44.3	136 40.6	S 6 33.0	12 42.4	N 26 56.8	56.3	Antares	112 16.2	S 26 29.2	
18	140 59.8	90 54.7	N 18 23.6	96 51.1	N 15 51.6	131 58.0	N 2 32.2	86 13.7	N 18 44.4	151 42.9	S 6 32.9	27 09.6	N 26 51.4	56.3				
19	156 02.2	105 54.7	N 18 24.2	111 50.5	N 15 52.6	146 58.7	N 2 33.0	101 15.5	N 18 44.6	166 45.2	S 6 32.9	41 36.9	N 26 45.8	56.2	Arcturus	145 48.1	N 19 03.3	
20	171 04.7	120 54.7	N 18 24.8	126 49.9	N 15 53.5	161 59.4	N 2 33.7	116 17.4	N 18 44.7	181 47.5	S 6 32.8	56 04.2	N 26 40.2	56.2	Atria	107 10.5	S 69 04.2	
21	186 07.2	135 54.7	N 18 25.4	141 49.3	N 15 54.5	177 00.2	N 2 34.5	131 19.2	N 18 44.9	196 49.7	S 6 32.8	70 31.7	N 26 34.4	56.2	Avior	234 15.2	S 59 35.5	
22	201 09.6	150 54.7	N 18 26.0	156 48.8	N 15 55.4	192 00.9	N 2 35.2	146 21.1	N 18 45.0	211 52.0	S 6 32.7	84 59.3	N 26 28.4	56.1	Bellatrix	278 23.8	N 6 22.3	
23	216 12.1	165 54.7	N 18 26.7	171 48.2	N 15 56.4	207 01.6	N 2 36.0	161 23.0	N 18 45.1	226 54.3	S 6 32.6	99 27.0	N 26 22.4	56.1	Betelgeuse	270 53.0	N 7 24.7	
13 00	231 14.5	180 54.7	N 18 27.3	186 47.6	N 15 57.3	222 02.3	N 2 36.7	176 24.8	N 18 45.3	241 56.6	S 6 32.6	113 54.8	N 26 16.2	56.1	Canopus	263 53.0	S 52 42.7	
01	246 17.0	195 54.7	N 18 27.9	201 47.0	N 15 58.3	237 03.0	N 2 37.5	191 26.7	N 18 45.4	256 58.9	S 6 32.5	128 22.6	N 26 09.8	56.0	Capella	280 23.2	N 46 01.4	
02	261 19.5	210 54.7	N 18 28.5	216 46.4	N 15 59.2	252 03.7	N 2 38.2	206 28.5	N 18 45.6	272 01.2	S 6 32.4	142 50.6	N 26 03.4	56.0	Castor	245 58.0	N 31 50.2	
03	276 21.9	225 54.8	N 18 29.1	231 45.8	N 16 00.2	267 04.4	N 2 39.0	221 30.4	N 18 45.7	287 03.5	S 6 32.4	157 18.7	N 25 56.8	56.0	Deneb	49 26.1	N 45 21.7	
04	291 24.4	240 54.8	N 18 29.7	246 45.3	N 16 01.1	282 05.1	N 2 39.8	236 32.3	N 18 45.8	302 05.8	S 6 32.3	171 46.9	N 25 50.0	55.9	Denebola	182 25.3	N 44 26.2	
05	306 26.9	255 54.8	N 18 30.3	261 44.7	N 16 02.1	297 05.8	N 2 40.5	251 34.1	N 18 46.0	317 08.1	S 6 32.2	186 15.2	N 25 43.2	55.9				
06	321 29.3	270 54.8	N 18 30.9	276 44.1	N 16 03.0	312 06.5	N 2 41.3	266 36.0	N 18 46.1	332 10.4	S 6 32.2	200 43.6	N 25 36.2	55.9	Diphda	348 48.1	S 17 51.2	
07	336 31.8	285 54.8	N 18 31.5	291 43.5	N 16 03.9	327 07.2	N 2 42.0	281 37.8	N 18 46.2	347 12.7	S 6 32.1	215 12.1	N 25 29.1	55.9	Dubhe	193 41.4	N 61 37.4	
08	351 34.3	300 54.8	N 18 32.2	306 42.9	N 16 04.9	342 07.9	N 2 42.8	296 39.7	N 18 46.4	2 15.0	S 6 32.1	229 40.8	N 25 21.9	55.8	Elnath	278 02.9	N 28 37.7	
09	6 36.7	315 54.8	N 18 32.8	321 42.4	N 16 05.8	357 08.7	N 2 43.5	311 41.6	N 18 46.5	17 17.2	S 6 32.0	244 09.5	N 25 14.6	55.8	Etamin	90 42.0	N 51 28.8	
10	21 39.2	330 54.8	N 18 33.4	336 41.8	N 16 06.8	12 09.4	N 2 44.3	326 43.4	N 18 46.7	32 19.5	S 6 31.9	258 38.3	N 25 07.1	55.8	Enif	33 39.4	N 9 59.0	
11	36 41.7	345 54.8	N 18 34.0	351 41.2	N 16 07.7	27 10.1	N 2 45.0	341 45.3	N 18 46.8	47 21.8	S 6 31.9	273 07.2	N 24 59.5	55.7				
12	51 44.1	0 54.8	N 18 34.6	6 40.6	N 16 08.7	42 10.8	N 2 45.8	356 47.1	N 18 46.9	62 24.1	S 6 31.8	287 36.3	N 24 51.8	55.7	Fomalhaut	15 15.3	S 29 29.6	
13	66 46.6	15 54.8	N 18 35.2	21 40.0	N 16 09.6	57 11.5	N 2 46.6	11 49.0	N 18 47.1	77 26.4	S 6 31.7	302 05.4	N 24 44.0	55.7	Gacrux	171 51.9	S 57 15.2	
14	81 49.0	30 54.8	N 18 35.8	36 39.4	N 16 10.5	72 12.2	N 2 47.3	26 50.8	N 18 47.2	92 28.7	S 6 31.7	316 34.7	N 24 36.1	55.7	Gienah	175 44.0	N 17 40.8	
15	96 51.5	45 54.8	N 18 36.4	51 38.8	N 16 11.5	87 12.9	N 2 48.1	41 52.7	N 18 47.4	107 31.0	S 6 31.6	331 04.0	N 24 28.1	55.6	Hadar	148 36.2	S 60 29.5	
16	111 54.0	60 54.8	N 18 37.0	66 38.3	N 16 12.4	102 13.6	N 2 48.8	56 54.6	N 18 47.5	122 33.3	S 6 31.6	345 33.5	N 24 19.9	55.6	Hamal	327 52.2	N 23 34.5	
17	126 56.4	75 54.8	N 18 37.6	81 37.7	N 16 13.4	117 14.3	N 2 49.6	71 56.4	N 18 47.6	137 35.6	S 6 31.5	0 03.1	N 24 11.7	55.6				
18	141 58.9	90 54.8	N 18 38.2	96 37.1	N 16 14.3	132 15.0	N 2 50.3	86 58.3	N 18 47.8	152 37.9	S 6 31.4	14 32.7	N 24 03.3	55.5	Kaus aust.	83 33.0	S 34 22.3	
19	157 01.4	105 54.8	N 18 38.8	111 36.5	N 16 15.2	147 15.7	N 2 51.1	102 00.1	N 18 47.9	167 40.2	S 6 31.4	29 02.5	N 23 54.8	55.5	Kochab	137 18.5	N 74 03.3	
20	172 03.8	120 54.8	N 18 39.4	126 35.9	N 16 16.2	162 16.4	N 2 51.8	117 02.0	N 18 48.0	182 42.5	S 6 31.3	43 32.4	N 23 46.3	55.5	Markab	13 30.6	N 15 20.0	
21	187 06.3	135 54.8	N 18 40.0	141 35.3	N 16 17.1	177 17.2	N 2 52.6	132 03.9	N 18 48.2	197 44.8	S 6 31.2	58 02.4	N 23 37.6	55.5	Menkar	314 07.1	N 4 11.0	
22	202 08.8	150 54.7	N 18 40.6	156 34.7	N 16 18.0	192 17.9	N 2 53.3	147 05.7	N 18 48.3	212 47.1	S 6 31.2	72 32.5	N 23 28.8	55.4	Menkent	147 57.9	S 36 29.5	
23	217 11.2	165 54.7	N 18 41.2	171 34.1	N 16 19.0	207 18.6	N 2 54.1	162 07.6	N 18 48.5	227 49.4	S 6 31.1	87 02.7	N 23 19.9	55.4				
14 00	232 13.7	180 54.7	N 18 41.8	186 33.5	N 16 19.9	222 19.3	N 2 54.8	177 09.4	N 18 48.6	242 51.6	S 6 31.1	101 33.0	N 23 10.9	55.4	Miaplacidus	221 38.5	S 69 49.3	
01	247 16.2	195 54.7	N 18 42.4	201 32.9	N 16 20.8	237 20.0	N 2 55.6	192 11.3	N 18 48.7	257 53.9	S 6 31.0	116 03.4	N 23 01.8	55.4	Mirfak			

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	MAGGIO	10
d h	'	'	'	'	'	'	'	'	'	'	'	'
15 00	233 12.8	180 54.6 N 18 56.1	186 19.2 N 16 42.1	222 36.3 N 3 12.9	177 54.0 N 18 51.9	243 46.7 S 6 29.6	90 10.2 N 19 08.0	54.8	NOME	360	- AR	Dec.
01	248 15.3	195 54.6 N 18 56.6	201 18.6 N 16 43.0	237 37.0 N 3 13.7	192 55.9 N 18 52.0	258 49.0 S 6 29.5	104 42.9 N 18 56.9	54.8	Acamar	315	12.6	S 40 12.5
02	263 17.8	210 54.6 N 18 57.2	216 18.0 N 16 43.9	252 37.7 N 3 14.4	207 57.7 N 18 52.2	273 51.3 S 6 29.5	119 15.8 N 18 45.7	54.8	Achernar	335	21.1	S 57 06.7
03	278 20.2	225 54.6 N 18 57.8	231 17.4 N 16 44.8	267 38.4 N 3 15.2	222 59.6 N 18 52.3	288 53.6 S 6 29.4	133 48.7 N 18 34.4	54.8	AcruX	173	00.3	S 63 14.3
04	293 22.7	240 54.6 N 18 58.4	246 16.8 N 16 45.8	282 39.1 N 3 15.9	238 01.5 N 18 52.4	303 55.9 S 6 29.3	148 21.6 N 18 23.1	54.8	Adhara	255	06.6	S 29 00.5
05	308 25.1	255 54.6 N 18 59.0	261 16.2 N 16 46.7	297 39.8 N 3 16.7	253 03.3 N 18 52.6	318 58.2 S 6 29.3	162 54.7 N 18 11.7	54.7	Aldebaran	290	40.6	N 16 33.4
06	323 27.6	270 54.6 N 18 59.6	276 15.6 N 16 47.6	312 40.5 N 3 17.4	268 05.2 N 18 52.7	334 00.5 S 6 29.2	177 27.9 N 18 00.2	54.7				
07	338 30.1	285 54.5 N 19 00.1	291 15.0 N 16 48.5	327 41.3 N 3 18.2	283 07.0 N 18 52.8	349 02.8 S 6 29.2	192 01.1 N 17 48.7	54.7	Alioth	166	13.0	N 55 49.8
08	353 32.5	300 54.5 N 19 00.7	306 14.4 N 16 49.4	342 42.0 N 3 18.9	298 08.9 N 18 53.0	4 05.1 S 6 29.1	206 34.4 N 17 37.1	54.7	Alkaid	152	52.0	N 49 11.6
09	8 35.0	315 54.5 N 19 01.3	321 13.8 N 16 50.3	357 42.7 N 3 19.7	313 10.7 N 18 53.1	19 07.4 S 6 29.0	221 07.8 N 17 25.4	54.7	Alnair	27	33.7	S 46 50.4
10	23 37.5	330 54.5 N 19 01.9	336 13.2 N 16 51.2	12 43.4 N 3 20.4	328 12.6 N 18 53.3	34 09.7 S 6 29.0	235 41.3 N 17 13.7	54.7	Alnilam	275	38.6	S 1 11.2
11	38 39.9	345 54.5 N 19 02.5	351 12.6 N 16 52.1	27 44.1 N 3 21.2	343 14.5 N 18 53.4	49 12.0 S 6 28.9	250 14.9 N 17 01.9	54.6	Alphard	217	48.3	S 8 45.9
12	53 42.4	0 54.5 N 19 03.0	6 11.9 N 16 53.0	42 44.8 N 3 21.9	358 16.3 N 18 53.5	64 14.3 S 6 28.9	264 48.5 N 16 50.1	54.6				
13	68 44.9	15 54.5 N 19 03.6	21 11.3 N 16 53.9	57 45.5 N 3 22.7	13 18.2 N 18 53.7	79 16.6 S 6 28.8	279 22.2 N 16 38.2	54.6	Alphecca	126	03.9	N 26 37.9
14	83 47.3	30 54.5 N 19 04.2	36 10.7 N 16 54.9	72 46.2 N 3 23.4	28 20.0 N 18 53.8	94 18.9 S 6 28.7	293 56.0 N 16 26.2	54.6	Alpheratz	357	35.6	N 29 13.3
15	98 49.8	45 54.5 N 19 04.8	51 10.1 N 16 55.8	87 46.9 N 3 24.2	43 21.9 N 18 53.9	109 21.2 S 6 28.7	308 29.9 N 16 14.2	54.6	Altair	62	00.4	N 8 55.8
16	113 52.3	60 54.4 N 19 05.4	66 09.9 N 16 56.7	102 47.6 N 3 24.9	58 23.7 N 18 54.1	124 23.5 S 6 28.6	323 03.8 N 16 02.1	54.6	Ankaa	353	08.0	S 42 10.4
17	128 54.7	75 54.4 N 19 05.9	81 08.9 N 16 57.6	117 48.3 N 3 25.7	73 25.6 N 18 54.2	139 25.8 S 6 28.6	337 37.8 N 15 50.0	54.5	Antares	112	16.2	S 26 29.2
18	143 57.2	90 54.4 N 19 06.5	96 08.3 N 16 58.5	132 49.1 N 3 26.4	88 27.5 N 18 54.3	154 28.1 S 6 28.5	352 11.9 N 15 37.8	54.5				
19	158 59.6	105 54.4 N 19 07.1	111 07.7 N 16 59.4	147 49.8 N 3 27.2	103 29.3 N 18 54.5	169 30.4 S 6 28.4	6 46.1 N 15 25.5	54.5	Arcturus	145	48.1	N 19 03.3
20	174 02.1	120 54.4 N 19 07.7	126 07.1 N 17 00.3	162 50.5 N 3 27.9	118 31.2 N 18 54.6	184 32.7 S 6 28.4	21 20.3 N 15 13.2	54.5	Atria	107	10.4	S 69 04.2
21	189 04.6	135 54.4 N 19 08.2	141 06.5 N 17 01.2	177 51.2 N 3 28.7	133 33.0 N 18 54.8	199 35.0 S 6 28.3	35 54.6 N 15 00.9	54.5	Avior	234	15.2	S 59 35.5
22	204 07.0	150 54.4 N 19 08.8	156 05.8 N 17 02.1	192 51.9 N 3 29.4	148 34.9 N 18 54.9	214 37.3 S 6 28.3	50 29.0 N 14 48.5	54.5	Bellatrix	278	23.8	N 6 22.3
23	219 09.5	165 54.3 N 19 09.4	171 05.2 N 17 03.0	207 52.6 N 3 30.2	163 36.7 N 18 55.0	229 39.6 S 6 28.2	65 03.4 N 14 36.0	54.5	Betelgeuse	270	53.0	N 7 24.7
16 00	234 12.0	180 54.3 N 19 10.0	186 04.6 N 17 03.9	222 53.3 N 3 30.9	178 38.6 N 18 55.2	244 41.9 S 6 28.1	79 37.9 N 14 23.5	54.5	Canopus	263	53.1	S 52 42.7
01	249 14.4	195 54.3 N 19 10.5	201 04.0 N 17 04.8	237 54.0 N 3 31.7	193 40.5 N 18 55.3	259 44.2 S 6 28.1	94 12.4 N 14 10.9	54.4	Capella	280	23.2	N 46 01.4
02	264 16.9	210 54.3 N 19 11.1	216 03.4 N 17 05.7	252 54.7 N 3 32.4	208 42.3 N 18 55.4	274 46.5 S 6 28.0	108 47.1 N 13 58.3	54.4	Castor	245	58.0	N 31 50.2
03	279 19.4	225 54.3 N 19 11.7	231 02.8 N 17 06.6	267 55.4 N 3 33.2	223 44.2 N 18 55.6	289 48.8 S 6 28.0	123 21.7 N 13 45.7	54.4	Deneb	49	26.1	N 45 21.7
04	294 21.8	240 54.3 N 19 12.3	246 02.2 N 17 07.5	282 56.1 N 3 33.9	238 46.0 N 18 55.7	304 51.1 S 6 27.9	137 56.5 N 13 33.0	54.4	Denebola	182	25.3	N 44 26.2
05	309 24.3	255 54.3 N 19 12.8	261 01.5 N 17 08.3	297 56.9 N 3 34.7	253 47.9 N 18 55.8	319 53.4 S 6 27.9	152 31.3 N 13 20.2	54.4				
06	324 26.8	270 54.2 N 19 13.4	276 00.9 N 17 09.2	312 57.6 N 3 35.4	268 49.7 N 18 56.0	334 55.7 S 6 27.8	167 06.2 N 13 07.4	54.4	Diphda	348	48.1	S 17 51.2
07	339 29.2	285 54.2 N 19 14.0	291 00.3 N 17 10.1	327 58.3 N 3 36.2	283 51.6 N 18 56.1	349 58.0 S 6 27.7	181 41.1 N 12 54.6	54.4	Dubhe	193	41.4	N 61 37.4
08	354 31.7	300 54.2 N 19 14.5	305 59.7 N 17 11.0	342 59.0 N 3 36.9	298 53.5 N 18 56.2	5 00.3 S 6 27.7	196 16.1 N 12 41.7	54.4	Elnath	278	02.9	N 28 37.7
09	9 34.1	315 54.2 N 19 15.1	320 59.1 N 17 11.9	357 59.7 N 3 37.7	313 55.3 N 18 56.4	20 02.6 S 6 27.6	210 51.1 N 12 28.8	54.4	Etamin	90	42.0	N 51 28.9
10	24 36.6	330 54.2 N 19 15.7	335 58.5 N 17 12.8	13 00.4 N 3 38.4	328 57.2 N 18 56.5	35 04.9 S 6 27.6	225 26.2 N 12 15.9	54.3	Enif	33	39.4	N 9 59.0
11	39 39.1	345 54.2 N 19 16.2	350 57.8 N 17 13.7	28 01.1 N 3 39.2	343 59.0 N 18 56.7	50 07.2 S 6 27.5	240 01.3 N 12 02.9	54.3				
12	54 41.5	0 54.1 N 19 16.8	5 57.2 N 17 14.6	43 01.8 N 3 39.9	359 00.9 N 18 56.8	65 09.5 S 6 27.4	254 36.5 N 11 49.8	54.3	Fomalhaut	15	15.3	S 29 29.6
13	69 44.0	15 54.1 N 19 17.4	20 56.6 N 17 15.5	58 02.5 N 3 40.7	14 02.7 N 18 56.9	80 11.8 S 6 27.4	269 11.8 N 11 36.7	54.3	Gacrux	171	51.9	S 57 15.2
14	84 46.5	30 54.1 N 19 17.9	35 56.0 N 17 16.4	73 03.2 N 3 41.4	29 04.6 N 18 57.1	95 14.1 S 6 27.3	283 47.1 N 11 23.6	54.3	Gienah	175	44.0	N 17 40.8
15	99 48.9	45 54.1 N 19 18.5	50 55.4 N 17 17.2	88 04.0 N 3 42.2	44 06.5 N 18 57.2	110 16.4 S 6 27.3	298 22.4 N 11 10.5	54.3	Hadar	148	36.2	S 60 29.5
16	114 51.4	60 54.1 N 19 19.1	65 54.7 N 17 18.1	103 04.7 N 3 42.9	59 08.3 N 18 57.3	125 18.7 S 6 27.2	312 57.8 N 10 57.3	54.3	Hamal	327	52.2	N 23 34.5
17	129 53.9	75 54.1 N 19 19.6	80 54.1 N 17 19.0	118 05.4 N 3 43.7	74 10.2 N 18 57.5	140 21.0 S 6 27.1	327 33.3 N 10 44.0	54.3				
18	144 56.3	90 54.0 N 19 20.2	95 53.5 N 17 19.9	133 06.1 N 3 44.4	89 12.0 N 18 57.6	155 23.4 S 6 27.1	342 08.8 N 10 30.8	54.3	Kaus aust.	83	33.0	S 34 22.3
19	159 58.8	105 54.0 N 19 20.7	110 52.9 N 17 20.8	148 06.8 N 3 45.2	104 13.9 N 18 57.7	170 25.7 S 6 27.0	356 44.3 N 10 17.5	54.3	Kochab	137	18.5	N 74 03.3
20	175 01.2	120 54.0 N 19 21.3	125 52.2 N 17 21.7	163 07.5 N 3 45.9	119 15.7 N 18 57.9	185 28.0 S 6 27.0	11 19.9 N 10 04.1	54.3	Markab	13	30.6	N 15 20.0
21	190 03.7	135 54.0 N 19 21.9	140 51.6 N 17 22.6	178 08.2 N 3 46.7	134 17.6 N 18 58.0	200 30.3 S 6 26.9	25 55.5 N 9 50.8	54.3	Menkar	314	07.1	N 4 11.0
22	205 06.2	150 54.0 N 19 22.4	155 51.0 N 17 23.4	193 08.9 N 3 47.4	149 19.5 N 18 58.1	215 32.6 S 6 26.9	40 31.1 N 9 37.4	54.3	Menkent	147	57.9	S 36 29.5
23	220 08.6	165 53.9 N 19 23.0	170 50.4 N 17 24.3	208 09.6 N 3 48.2	164 21.3 N 18 58.3	230 34.9 S 6 26.8	55 06.8 N 9 23.9	54.2				
17 00	235 11.1	180 53.9 N 19 23.6	185 49.7 N 17 25.2	223 10.3 N 3 48.9	179 23.2 N 18 58.4	245 37.2 S 6 26.7	69 42.6 N 9 10.5	54.2	Miaplacidus	221	38.5	S 69 49.3
01	250 13.6	195 53.9 N 19 24.1	200 49.1 N 17 26.1	238 11.0 N 3 49.7	194 25.0 N 18 58.5	260 39.5 S 6 26.7	84 18.4 N 8 57.0	54.2	Mirfak	308	29.6	N 49 56.8
02	265 16.0	210 53.9 N 19 24.7	215 48.5 N 17 26.9	253 11.8 N 3 50.4	209 26.9 N 18 58.7	275 41.8 S 6 26.6	98 54.2 N 8 43.4	54.2	Mizar	158	45.9	N 54 48.0
03	280 18.5	225 53.9 N 19 25.2	230 47.9 N 17 27.8	268 12.5 N 3 51.2	224 28.7 N 18 58.8	290 44.1 S 6 26.6	113 30.0 N 8 29.9	54.2	Nunki	75	48.2	S 26 16.0
04	295 21.0	240 53.8 N 19 25.8	245 47.2 N 17 28.7	283 13.2 N 3 51.9	239 30.6 N 18 59.0	305 46.4 S 6 26.5	128 05.9 N 8 16.3	54.2	Peacock	53	06.5	S 56 39.2
05	310 23.4	255 53.8 N 19 26.3	260 46.6 N 17 29.6	298 13.9 N 3 52.6	254 32.5 N 18 59.1	320 48.7 S 6 26.5	142 41.8 N 8 02.7	54.2	Polaris	314	49.4	N 89 21.9
06	325 25.9	270 53.8 N 19 26.9	275 46.0 N 17 30.5	313 14.6 N 3 53.4	269 34.3 N 18 59.2	335 51.0 S 6 26.4	157 17.8 N 7 49.0	54.2	Pollux	243	18.2	N 27 58.1
07	340 28.4	285 53.8 N 19 27.5	290 45.4 N 17 31.3	328 15.3 N 3 54.1	284 36.2 N 18 59.4	350 53.3 S 6 26.3	171 53.8 N 7 35.4	54.2	Procyon	244	51.6	N 5 09.7
08	355 30.8	300 53.8 N 19 28.0	305 44.7 N 17 32.2	343 16.0 N 3 54.9	299 38.0 N 18 59.5	5 55.6 S 6 26.3	186 29.8 N 7 21.7	54.2	Rasalhague	95	58.8	N 12 32.4
09	10 33.3	315 53.7 N 19 28										

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	MAGGIO	13
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	NOME			
18 00	236 10.2	180 53.4	N 19 36.8	185 34.6	N 17 46.1	223 27.4	N 4 06.8	180 07.7	N 19 01.6	246 32.5	S 6 25.4	60 09.1	N 3 39.7	54.2	NOME	360	- AR	Dec.
01	251 12.7	195 53.4	N 19 37.4	200 34.0	N 17 46.9	238 28.1	N 4 07.6	195 09.6	N 19 01.8	261 34.8	S 6 25.3	74 45.4	N 3 25.7	54.2	Acamar	315 12.6	S 40 12.4	
02	266 15.2	210 53.3	N 19 37.9	215 33.3	N 17 47.8	253 28.8	N 4 08.3	210 11.4	N 19 01.9	276 37.1	S 6 25.3	89 21.7	N 3 11.7	54.2	Achernar	335 21.1	S 57 06.7	
03	281 17.6	225 53.3	N 19 38.4	230 32.7	N 17 48.6	268 29.5	N 4 09.1	225 13.3	N 19 02.0	291 39.4	S 6 25.2	103 58.1	N 2 57.6	54.2	Acruar	173 00.3	S 63 14.3	
04	296 20.1	240 53.3	N 19 39.0	245 32.0	N 17 49.5	283 30.2	N 4 09.8	240 15.2	N 19 02.2	306 41.7	S 6 25.1	118 34.5	N 2 43.6	54.2	Adhara	255 06.6	S 29 00.4	
05	311 22.6	255 53.2	N 19 39.5	260 31.4	N 17 50.4	298 30.9	N 4 10.6	255 17.0	N 19 02.3	321 44.0	S 6 25.1	133 10.8	N 2 29.5	54.2	Aldebaran	290 40.6	N 16 33.4	
06	326 25.0	270 53.2	N 19 40.1	275 30.8	N 17 51.2	313 31.6	N 4 11.3	270 18.9	N 19 02.4	336 46.3	S 6 25.0	147 47.2	N 2 15.4	54.2				
07	341 27.5	285 53.2	N 19 40.6	290 30.1	N 17 52.1	328 32.3	N 4 12.0	285 20.7	N 19 02.6	351 48.6	S 6 25.0	162 23.6	N 2 01.3	54.2	Alioth	166 13.0	N 55 49.8	
08	356 30.0	300 53.2	N 19 41.2	305 29.5	N 17 52.9	343 33.1	N 4 12.8	300 22.6	N 19 02.7	6 50.9	S 6 24.9	177 00.0	N 1 47.2	54.2	Alkaid	152 52.0	N 49 11.6	
09	11 32.4	315 53.1	N 19 41.7	320 28.8	N 17 53.8	358 33.8	N 4 13.5	315 24.4	N 19 02.9	21 53.3	S 6 24.9	191 36.4	N 1 33.1	54.2	Alnair	27 33.7	S 46 50.4	
10	26 34.9	330 53.1	N 19 42.2	335 28.2	N 17 54.6	13 34.5	N 4 14.3	330 26.3	N 19 03.0	36 55.6	S 6 24.8	206 12.8	N 1 19.0	54.2	Alnilam	275 38.6	S 1 11.2	
11	41 37.3	345 53.1	N 19 42.8	350 27.6	N 17 55.5	28 35.2	N 4 15.0	345 28.2	N 19 03.1	51 57.9	S 6 24.7	220 49.1	N 1 04.8	54.2	Alphard	217 48.3	S 8 45.9	
12	56 39.8	0 53.1	N 19 43.3	5 26.9	N 17 56.3	43 35.9	N 4 15.8	0 30.0	N 19 03.3	67 00.2	S 6 24.7	235 25.5	N 0 50.7	54.2				
13	71 42.3	15 53.0	N 19 43.8	20 26.3	N 17 57.2	58 36.6	N 4 16.5	15 31.9	N 19 03.4	82 02.5	S 6 24.6	250 01.9	N 0 36.6	54.2	Alphecca	126 03.8	N 26 37.9	
14	86 44.7	30 53.0	N 19 44.4	35 25.6	N 17 58.0	73 37.3	N 4 17.3	30 33.7	N 19 03.5	97 04.8	S 6 24.6	264 38.3	N 0 22.4	54.2	Alpheratz	357 35.6	N 29 13.3	
15	101 47.2	45 53.0	N 19 44.9	50 25.0	N 17 58.9	88 38.0	N 4 18.0	45 35.6	N 19 03.7	112 07.1	S 6 24.5	279 14.6	N 0 08.3	54.2	Altair	62 00.4	N 8 55.8	
16	116 49.7	60 52.9	N 19 45.5	65 24.3	N 17 59.7	103 38.7	N 4 18.7	60 37.4	N 19 03.8	127 09.4	S 6 24.5	293 51.0	S 0 05.9	54.2	Ankaa	353 08.0	S 42 10.4	
17	131 52.1	75 52.9	N 19 46.0	80 23.7	N 18 00.6	118 39.4	N 4 19.5	75 39.3	N 19 03.9	142 11.7	S 6 24.4	308 27.4	S 0 20.0	54.3	Antares	112 16.2	S 26 29.2	
18	146 54.6	90 52.9	N 19 46.5	95 23.1	N 18 01.4	133 40.2	N 4 20.2	90 41.1	N 19 04.1	157 14.0	S 6 24.4	323 03.7	S 0 34.2	54.3				
19	161 57.1	105 52.9	N 19 47.1	110 22.4	N 18 02.3	148 40.9	N 4 21.0	105 43.0	N 19 04.2	172 16.3	S 6 24.3	337 40.0	S 0 48.4	54.3	Arcturus	145 48.1	N 19 03.3	
20	176 59.5	120 52.8	N 19 47.6	125 21.8	N 18 03.1	163 41.6	N 4 21.7	120 44.9	N 19 04.3	187 18.6	S 6 24.2	352 16.4	S 1 02.5	54.3	Atria	107 10.4	S 69 04.2	
21	192 02.0	135 52.8	N 19 48.1	140 21.1	N 18 04.0	178 42.3	N 4 22.5	135 46.7	N 19 04.5	202 21.0	S 6 24.2	6 52.7	S 1 16.7	54.3	Avior	234 15.2	S 59 35.5	
22	207 04.5	150 52.8	N 19 48.7	155 20.5	N 18 04.8	193 43.0	N 4 23.2	150 48.6	N 19 04.6	217 23.3	S 6 24.1	21 29.0	S 1 30.9	54.3	Bellatrix	278 23.8	N 6 22.3	
23	222 06.9	165 52.7	N 19 49.2	170 19.8	N 18 05.6	208 43.7	N 4 23.9	165 50.4	N 19 04.7	232 25.6	S 6 24.1	36 05.3	S 1 45.0	54.3	Betelgeuse	270 53.0	N 7 24.7	
19 00	237 09.4	180 52.7	N 19 49.7	185 19.2	N 18 06.5	223 44.4	N 4 24.7	180 52.3	N 19 04.9	247 27.9	S 6 24.0	50 41.5	S 1 59.2	54.3	Canopus	263 53.1	S 52 42.7	
01	252 11.8	195 52.7	N 19 50.3	200 18.5	N 18 07.3	238 45.1	N 4 25.4	195 54.1	N 19 05.0	262 30.2	S 6 24.0	65 17.8	S 2 13.4	54.3	Capella	280 23.2	N 46 01.4	
02	267 14.3	210 52.6	N 19 50.8	215 17.9	N 18 08.2	253 45.8	N 4 26.2	210 56.0	N 19 05.1	277 32.5	S 6 23.9	79 54.0	S 2 27.5	54.3	Castor	245 58.0	N 31 50.2	
03	282 16.8	225 52.6	N 19 51.3	230 17.2	N 18 09.0	268 46.5	N 4 26.9	225 57.9	N 19 05.3	292 34.8	S 6 23.9	94 30.2	S 2 41.7	54.3	Deneb	49 26.1	N 45 21.7	
04	297 19.2	240 52.6	N 19 51.8	245 16.6	N 18 09.8	283 47.3	N 4 27.7	240 59.7	N 19 05.4	307 37.1	S 6 23.8	109 06.4	S 2 55.8	54.3	Denebola	182 25.3	N 44 26.2	
05	312 21.7	255 52.5	N 19 52.4	260 15.9	N 18 10.7	298 48.0	N 4 28.4	256 01.6	N 19 05.5	322 39.4	S 6 23.7	123 42.6	S 3 10.0	54.3				
06	327 24.2	270 52.5	N 19 52.9	275 15.3	N 18 11.5	313 48.7	N 4 29.1	271 03.4	N 19 05.7	337 41.7	S 6 23.7	138 18.7	S 3 24.1	54.4	Diphda	348 48.1	S 17 51.2	
07	342 26.6	285 52.5	N 19 53.4	290 14.6	N 18 12.4	328 49.4	N 4 29.9	286 05.3	N 19 05.8	352 44.1	S 6 23.6	152 54.8	S 3 38.3	54.4	Dubhe	193 41.4	N 61 37.4	
08	357 29.1	300 52.4	N 19 54.0	305 14.0	N 18 13.2	343 50.1	N 4 30.6	301 07.1	N 19 05.9	7 46.4	S 6 23.6	167 30.9	S 3 52.4	54.4	Elnath	278 02.9	N 28 37.7	
09	12 31.6	315 52.4	N 19 54.5	320 13.3	N 18 14.0	358 50.8	N 4 31.4	316 09.0	N 19 06.1	22 48.7	S 6 23.5	182 07.0	S 4 06.5	54.4	Etamin	90 42.0	N 51 28.9	
10	27 34.0	330 52.4	N 19 55.0	335 12.7	N 18 14.9	13 51.5	N 4 32.1	331 10.8	N 19 06.2	37 51.0	S 6 23.5	196 43.1	S 4 20.6	54.4	Enif	33 39.4	N 9 59.0	
11	42 36.5	345 52.3	N 19 55.5	350 12.0	N 18 15.7	28 52.2	N 4 32.9	346 12.7	N 19 06.3	52 53.3	S 6 23.4	211 19.1	S 4 34.7	54.4				
12	57 38.9	0 52.3	N 19 56.1	5 11.4	N 18 16.5	43 52.9	N 4 33.6	1 14.6	N 19 06.5	67 55.6	S 6 23.4	225 55.1	S 4 48.8	54.4	Fomalhaut	15 15.3	S 29 29.5	
13	72 41.4	15 52.3	N 19 56.6	20 10.7	N 18 17.4	58 53.6	N 4 34.3	16 16.4	N 19 06.6	82 57.9	S 6 23.3	240 31.0	S 5 02.9	54.4	Gacrux	171 51.9	S 57 15.2	
14	87 43.9	30 52.2	N 19 57.1	35 10.0	N 18 18.2	73 54.4	N 4 35.1	31 18.3	N 19 06.7	98 00.2	S 6 23.3	255 07.0	S 5 17.0	54.4	Gienah	175 44.0	S 17 40.8	
15	102 46.3	45 52.2	N 19 57.6	50 09.4	N 18 19.0	88 55.1	N 4 35.8	46 20.1	N 19 06.8	113 02.5	S 6 23.2	269 42.8	S 5 31.0	54.4	Hadar	148 36.2	S 60 29.6	
16	117 48.8	60 52.2	N 19 58.2	65 08.7	N 18 19.8	103 55.8	N 4 36.6	61 22.0	N 19 07.0	128 04.9	S 6 23.1	284 18.7	S 5 45.1	54.4	Hamal	327 52.2	N 23 34.5	
17	132 51.3	75 52.1	N 19 58.7	80 08.1	N 18 20.7	118 56.5	N 4 37.3	76 23.8	N 19 07.1	143 07.2	S 6 23.1	298 54.5	S 5 59.1	54.5				
18	147 53.7	90 52.1	N 19 59.2	95 07.4	N 18 21.5	133 57.2	N 4 38.0	91 25.7	N 19 07.2	158 09.5	S 6 23.0	313 30.3	S 6 13.1	54.5	Kaus aust.	83 33.0	S 34 22.3	
19	162 56.2	105 52.1	N 19 59.7	110 06.8	N 18 22.3	148 57.9	N 4 38.8	106 27.5	N 19 07.4	173 11.8	S 6 23.0	328 06.1	S 6 27.1	54.5	Kochab	137 18.6	N 74 03.3	
20	177 58.7	120 52.0	N 20 00.2	125 06.1	N 18 23.1	163 58.6	N 4 39.5	121 29.4	N 19 07.5	188 14.1	S 6 22.9	342 41.8	S 6 41.1	54.5	Markab	13 30.6	N 15 20.0	
21	193 01.1	135 52.0	N 20 00.8	140 05.5	N 18 24.0	178 59.3	N 4 40.3	136 31.3	N 19 07.6	203 16.4	S 6 22.9	357 17.5	S 6 55.1	54.5	Menkar	314 07.1	N 4 11.0	
22	208 03.6	150 52.0	N 20 01.3	155 04.8	N 18 24.8	194 00.0	N 4 41.0	151 33.1	N 19 07.8	218 18.7	S 6 22.8	11 53.1	S 7 09.0	54.5	Menkent	147 57.9	S 36 29.5	
23	223 06.1	165 51.9	N 20 01.8	170 04.1	N 18 25.6	209 00.7	N 4 41.7	166 35.0	N 19 07.9	233 21.0	S 6 22.8	26 28.7	S 7 23.0	54.5				
20 00	238 08.5	180 51.9	N 20 02.3	185 03.5	N 18 26.4	224 01.5	N 4 42.5	181 36.8	N 19 08.0	248 23.4	S 6 22.7	41 04.2	S 7 36.9	54.5	Miaplacidus	221 38.6	S 69 49.3	
01	253 11.0	195 51.9	N 20 02.8	200 02.8	N 18 27.3	239 02.2	N 4 43.2	196 38.7	N 19 08.2	263 25.7	S 6 22.7	55 39.7	S 7 50.8	54.6	Mirfak	308 29.6	N 49 56.8	
02																		

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	MAGGIO	16
d h	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "
21 00	239 07.7	180 50.9 N 20 14.5	184 47.5 N 18 45.9	224 18.5 N 5 00.2	182 21.4 N 19 11.2	249 18.9 S 6 21.4	31 01.6 S 13 02.6	54.9	NOME	360	- AR	Dec.
01	254 10.1	195 50.9 N 20 15.1	199 46.8 N 18 46.7	239 19.2 N 5 01.0	197 23.2 N 19 11.3	264 21.2 S 6 21.4	45 35.8 S 13 15.8	54.9	Acamar	315	12.6	S 40 12.4
02	269 12.6	210 50.9 N 20 15.6	214 46.1 N 18 47.5	254 19.9 N 5 01.7	212 25.1 N 19 11.5	279 23.5 S 6 21.3	60 09.8 S 13 28.9	54.9	Achernar	335	21.1	S 57 06.7
03	284 15.0	225 50.8 N 20 16.1	229 45.5 N 18 48.3	269 20.6 N 5 02.4	227 26.9 N 19 11.6	294 25.8 S 6 21.3	74 43.8 S 13 41.9	55.0	AcruX	173	00.3	S 63 14.3
04	299 17.5	240 50.8 N 20 16.6	244 44.8 N 18 49.1	284 21.3 N 5 03.2	242 28.8 N 19 11.7	309 28.2 S 6 21.2	89 17.7 S 13 54.9	55.0	Adhara	255	06.6	S 29 00.4
05	314 20.0	255 50.7 N 20 17.1	259 44.1 N 18 49.9	299 22.1 N 5 03.9	257 30.6 N 19 11.9	324 30.5 S 6 21.2	103 51.5 S 14 07.9	55.0	Aldebaran	290	40.6	N 16 33.4
06	329 22.4	270 50.7 N 20 17.6	274 43.5 N 18 50.7	314 22.8 N 5 04.7	272 32.5 N 19 12.0	339 32.8 S 6 21.1	118 25.3 S 14 20.8	55.0				
07	344 24.9	285 50.6 N 20 18.1	289 42.8 N 18 51.5	329 23.5 N 5 05.4	287 34.4 N 19 12.1	354 35.1 S 6 21.1	132 59.0 S 14 33.6	55.0	Alioth	166	13.0	N 55 49.8
08	359 27.4	300 50.6 N 20 18.6	304 42.1 N 18 52.3	344 24.2 N 5 06.1	302 36.2 N 19 12.3	379 37.4 S 6 21.0	147 32.6 S 14 46.4	55.0	Alkaid	152	52.0	N 49 11.6
09	14 29.8	315 50.6 N 20 19.0	319 41.4 N 18 53.1	359 24.9 N 5 06.9	317 38.1 N 19 12.4	24 39.7 S 6 21.0	162 06.1 S 14 59.2	55.1	Alnair	27	33.6	S 46 50.4
10	29 32.3	330 50.5 N 20 19.5	334 40.8 N 18 53.9	14 25.6 N 5 07.6	332 39.9 N 19 12.5	39 42.1 S 6 20.9	176 39.6 S 15 11.9	55.1	Alnilam	275	38.6	S 1 11.2
11	44 34.8	345 50.5 N 20 20.0	349 40.1 N 18 54.7	29 26.3 N 5 08.3	347 41.8 N 19 12.6	54 44.4 S 6 20.9	191 12.9 S 15 24.6	55.1	Alphard	217	48.3	S 8 45.9
12	59 37.2	0 50.4 N 20 20.5	4 39.4 N 18 55.4	44 27.0 N 5 09.1	2 43.6 N 19 12.8	69 46.7 S 6 20.8	205 46.2 S 15 37.2	55.1				
13	74 39.7	15 50.4 N 20 21.0	19 38.7 N 18 56.2	59 27.7 N 5 09.8	17 45.5 N 19 12.9	84 49.0 S 6 20.8	220 19.4 S 15 49.7	55.1	Alphecca	126	03.8	N 26 37.9
14	89 42.2	30 50.3 N 20 21.5	34 38.0 N 18 57.0	74 28.4 N 5 10.5	32 47.3 N 19 13.0	99 51.3 S 6 20.7	234 52.6 S 16 02.2	55.1	Alpheratz	357	35.6	N 29 13.3
15	104 44.6	45 50.3 N 20 22.0	49 37.4 N 18 57.8	89 29.2 N 5 11.3	47 49.2 N 19 13.2	114 53.6 S 6 20.7	249 25.6 S 16 14.6	55.2	Altair	62	00.3	N 8 55.8
16	119 47.1	60 50.2 N 20 22.5	64 36.7 N 18 58.6	104 29.9 N 5 12.0	62 51.1 N 19 13.3	129 56.0 S 6 20.6	263 58.6 S 16 27.0	55.2	Ankaa	353	08.0	S 42 10.3
17	134 49.5	75 50.2 N 20 23.0	79 36.0 N 18 59.4	119 30.6 N 5 12.8	77 52.9 N 19 13.4	144 58.3 S 6 20.6	278 31.4 S 16 39.3	55.2	Antares	112	16.2	S 26 29.2
18	149 52.0	90 50.2 N 20 23.5	94 35.3 N 19 00.2	134 31.3 N 5 13.5	92 54.8 N 19 13.6	160 00.6 S 6 20.5	293 04.2 S 16 51.5	55.2				
19	164 54.5	105 50.1 N 20 24.0	109 34.6 N 19 01.0	149 32.0 N 5 14.2	107 56.6 N 19 13.7	175 02.9 S 6 20.4	307 36.9 S 17 03.7	55.2	Arcturus	145	48.1	N 19 03.3
20	179 56.9	120 50.1 N 20 24.5	124 34.0 N 19 01.7	164 32.7 N 5 15.0	122 58.5 N 19 13.8	190 05.2 S 6 20.4	322 09.6 S 17 15.8	55.3	Atria	107	10.4	S 69 04.2
21	194 59.4	135 50.0 N 20 25.0	139 33.3 N 19 02.5	179 33.4 N 5 15.7	138 00.3 N 19 14.0	205 07.6 S 6 20.3	336 42.1 S 17 27.9	55.3	Avior	234	15.2	S 59 35.5
22	210 01.9	150 50.0 N 20 25.5	154 32.6 N 19 03.3	194 34.1 N 5 16.4	153 02.2 N 19 14.1	220 09.9 S 6 20.3	351 14.5 S 17 39.9	55.3	Bellatrix	278	23.8	N 6 22.3
23	225 04.3	165 49.9 N 20 26.0	169 31.9 N 19 04.1	209 34.8 N 5 17.2	168 04.0 N 19 14.2	235 12.2 S 6 20.2	5 46.9 S 17 51.8	55.3	Betelgeuse	270	53.0	N 7 24.7
22 00	240 06.8	180 49.9 N 20 26.4	184 31.2 N 19 04.9	224 35.5 N 5 17.9	183 05.9 N 19 14.3	250 14.5 S 6 20.2	20 19.2 S 18 03.7	55.3	Canopus	263	53.1	S 52 42.7
01	255 09.3	195 49.8 N 20 26.9	199 30.6 N 19 05.6	239 36.3 N 5 18.6	198 07.8 N 19 14.5	265 16.8 S 6 20.1	34 51.3 S 18 15.4	55.4	Capella	280	23.2	N 46 01.4
02	270 11.7	210 49.8 N 20 27.4	214 29.9 N 19 06.4	254 37.0 N 5 19.4	213 09.6 N 19 14.6	280 19.2 S 6 20.1	49 23.4 S 18 27.2	55.4	Castor	245	58.0	N 31 50.2
03	285 14.2	225 49.7 N 20 27.9	229 29.2 N 19 07.2	269 37.7 N 5 20.1	228 11.5 N 19 14.7	295 21.5 S 6 20.0	63 55.4 S 18 38.8	55.4	Deneb	49	26.0	N 45 21.7
04	300 16.7	240 49.7 N 20 28.4	244 28.5 N 19 08.0	284 38.4 N 5 20.8	243 13.3 N 19 14.9	310 23.8 S 6 20.0	78 27.3 S 18 50.4	55.4	Denebola	182	25.3	N 44 26.2
05	315 19.1	255 49.6 N 20 28.9	259 27.8 N 19 08.8	299 39.1 N 5 21.6	258 15.2 N 19 15.0	325 26.1 S 6 19.9	92 59.1 S 19 01.9	55.4				
06	330 21.6	270 49.6 N 20 29.4	274 27.1 N 19 09.5	314 39.8 N 5 22.3	273 17.0 N 19 15.1	340 28.4 S 6 19.9	107 30.8 S 19 13.3	55.5	Diphda	348	48.1	S 17 51.2
07	345 24.0	285 49.5 N 20 29.8	289 26.4 N 19 10.3	329 40.5 N 5 23.0	288 18.9 N 19 15.3	355 30.8 S 6 19.8	122 02.4 S 19 24.6	55.5	Dubhe	193	41.4	N 61 37.4
08	0 26.5	300 49.5 N 20 30.3	304 25.8 N 19 11.1	344 41.2 N 5 23.8	303 20.7 N 19 15.4	10 33.1 S 6 19.8	136 33.9 S 19 35.9	55.5	Elnath	278	02.9	N 28 37.7
09	15 29.0	315 49.4 N 20 30.8	319 25.1 N 19 11.8	359 41.9 N 5 24.5	318 22.6 N 19 15.5	25 35.4 S 6 19.7	151 05.4 S 19 47.1	55.5	Etamin	90	42.0	N 51 28.9
10	30 31.4	330 49.4 N 20 31.3	334 24.4 N 19 12.6	14 42.6 N 5 25.2	333 24.5 N 19 15.7	40 37.7 S 6 19.7	165 36.7 S 19 58.2	55.5	Enif	33	39.3	N 9 59.0
11	45 33.9	345 49.3 N 20 31.8	349 23.7 N 19 13.4	29 43.4 N 5 26.0	348 26.3 N 19 15.8	55 40.0 S 6 19.6	180 07.9 S 20 09.2	55.6				
12	60 36.4	0 49.3 N 20 32.3	4 23.0 N 19 14.2	44 44.1 N 5 26.7	3 28.2 N 19 15.9	70 42.4 S 6 19.6	194 39.0 S 20 20.1	55.6	Fomalhaut	15	15.2	S 29 29.5
13	75 38.8	15 49.2 N 20 32.7	19 22.3 N 19 14.9	59 44.8 N 5 27.4	18 30.0 N 19 16.0	85 44.7 S 6 19.5	209 10.1 S 20 31.0	55.6	Gacrux	171	51.9	S 57 15.2
14	90 41.3	30 49.2 N 20 33.2	34 21.6 N 19 15.7	74 45.5 N 5 28.2	33 31.9 N 19 16.2	100 47.0 S 6 19.5	223 41.0 S 20 41.7	55.6	Gienah	175	44.0	S 17 40.8
15	105 43.8	45 49.1 N 20 33.7	49 20.9 N 19 16.5	89 46.2 N 5 28.9	48 33.7 N 19 16.3	115 49.3 S 6 19.4	238 11.8 S 20 52.4	55.6	Hadar	148	36.2	S 60 29.6
16	120 46.2	60 49.1 N 20 34.2	64 20.2 N 19 17.2	104 46.9 N 5 29.6	63 35.6 N 19 16.4	130 51.6 S 6 19.4	252 42.6 S 21 03.0	55.7	Hamal	327	52.2	N 23 34.5
17	135 48.7	75 49.0 N 20 34.7	79 19.6 N 19 18.0	119 47.6 N 5 30.4	78 37.4 N 19 16.6	145 54.0 S 6 19.3	267 13.2 S 21 13.5	55.7				
18	150 51.1	90 49.0 N 20 35.1	94 18.9 N 19 18.8	134 48.3 N 5 31.1	93 39.3 N 19 16.7	160 56.3 S 6 19.3	281 43.7 S 21 23.9	55.7	Kaus aust.	83	32.9	S 34 22.3
19	165 53.6	105 48.9 N 20 35.6	109 18.2 N 19 19.5	149 49.0 N 5 31.8	108 41.2 N 19 16.8	175 58.6 S 6 19.2	296 14.2 S 21 34.2	55.7	Kochab	137	18.6	N 74 03.3
20	180 56.1	120 48.9 N 20 36.1	124 17.5 N 19 20.3	164 49.7 N 5 32.6	123 43.0 N 19 17.0	191 00.9 S 6 19.2	310 44.5 S 21 44.4	55.7	Markab	13	30.6	N 15 20.0
21	195 58.5	135 48.8 N 20 36.6	139 16.8 N 19 21.0	179 50.5 N 5 33.3	138 44.9 N 19 17.1	206 03.2 S 6 19.1	325 14.7 S 21 54.5	55.8	Menkar	314	07.1	N 4 11.0
22	211 01.0	150 48.8 N 20 37.0	154 16.1 N 19 21.8	194 51.2 N 5 34.0	153 46.7 N 19 17.2	221 05.6 S 6 19.1	339 44.9 S 22 04.5	55.8	Menkent	147	57.9	S 36 29.5
23	226 03.5	165 48.7 N 20 37.5	169 15.4 N 19 22.6	209 51.9 N 5 34.8	168 48.6 N 19 17.3	236 07.9 S 6 19.0	354 14.9 S 22 14.4	55.8				
23 00	241 05.9	180 48.7 N 20 38.0	184 14.7 N 19 23.3	224 52.6 N 5 35.5	183 50.4 N 19 17.5	251 10.2 S 6 19.0	8 44.8 S 22 24.3	55.8	Miaplacidus	221	38.6	S 69 49.3
01	256 08.4	195 48.6 N 20 38.5	199 14.0 N 19 24.1	239 53.3 N 5 36.2	198 52.3 N 19 17.6	266 12.5 S 6 18.9	23 14.6 S 22 34.0	55.9	Mirfak	308	29.6	N 49 56.8
02	271 10.9	210 48.6 N 20 38.9	214 13.3 N 19 24.8	254 54.0 N 5 37.0	213 54.1 N 19 17.7	281 14.9 S 6 18.9	37 44.4 S 22 43.6	55.9	Mizar	158	45.9	N 54 48.0
03	286 13.3	225 48.5 N 20 39.4	229 12.6 N 19 25.6	269 54.7 N 5 37.7	228 56.0 N 19 17.9	296 17.2 S 6 18.8	52 14.0 S 22 53.1	55.9	Nunki	75	48.2	S 26 16.0
04	301 15.8	240 48.5 N 20 39.9	244 11.9 N 19 26.4	284 55.4 N 5 38.4	243 57.9 N 19 18.0	311 19.5 S 6 18.8	66 43.5 S 23 02.5	55.9	Peacock	53	06.4	S 56 39.2
05	316 18.3	255 48.4 N 20 40.3	259 11.2 N 19 27.1	299 56.1 N 5 39.2	258 59.7 N 19 18.1	326 21.8 S 6 18.7	81 12.9 S 23 11.8	55.9	Polaris	314	48.6	N 89 21.9
06	331 20.7	270 48.4 N 20 40.8	274 10.5 N 19 27.9	314 56.8 N 5 39.9	274 01.6 N 19 18.2	341 24.2 S 6 18.7	95 42.2 S 23 21.0	56.0	Pollux	243	18.2	N 27 58.1
07	346 23.2	285 48.3 N 20 41.3	289 09.8 N 19 28.6	329 57.6 N 5 40.6	289 03.4 N 19 18.4	356 26.5 S 6 18.6	110 11.5 S 23 30.1	56.0	Procyon	244	51.6	N 5 09.7
08	1 25.6	300 48.2 N 20 41.8	304 09.4 N 19 29.4	344 58.3 N 5 41.4	304 05.3 N 19 18.5	11 28.8 S 6 18.6	124 40.6 S 23 39.1	56.0	Rasalhague	95	58.8	N 12 32.4
09	16 28.1	3										

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	MAGGIO	19
d h	'	'	'	'	'	'	'	'	'	'	'	'
24 00	242 05.1	180 47.3 N 20 49.2	183 57.9 N 19 41.3	225 09.6 N 5 53.1	184 35.0 N 19 20.6	252 06.0 S 6 17.8	356 12.7 S 25 46.3	56.4	NOME	360	- AR	Dec.
01	257 07.5	195 47.3 N 20 49.6	198 57.2 N 19 42.0	240 10.3 N 5 53.8	199 36.8 N 19 20.7	267 08.3 S 6 17.8	10 40.1 S 25 53.2	56.4	Acamar	315	12.6	S 40 12.4
02	272 10.0	210 47.2 N 20 50.1	213 56.5 N 19 42.7	255 11.0 N 5 54.5	214 38.7 N 19 20.8	282 10.6 S 6 17.7	25 07.4 S 25 59.9	56.4	Achernar	335	21.1	S 57 06.7
03	287 12.5	225 47.2 N 20 50.5	228 55.8 N 19 43.5	270 11.7 N 5 55.2	229 40.5 N 19 21.0	297 13.0 S 6 17.7	39 34.7 S 26 06.5	56.4	Acruz	173	00.3	S 63 14.3
04	302 14.9	240 47.1 N 20 51.0	243 55.1 N 19 44.2	285 12.5 N 5 56.0	244 42.4 N 19 21.1	312 15.3 S 6 17.6	54 01.8 S 26 13.0	56.4	Adhara	255	06.6	S 29 00.4
05	317 17.4	255 47.1 N 20 51.5	258 54.3 N 19 44.9	300 13.2 N 5 56.7	259 44.2 N 19 21.2	327 17.6 S 6 17.6	68 28.9 S 26 19.3	56.5	Aldebaran	290	40.6	N 16 33.4
06	332 19.9	270 47.0 N 20 51.9	273 53.6 N 19 45.7	315 13.9 N 5 57.4	274 46.1 N 19 21.3	342 19.9 S 6 17.5	82 55.8 S 26 25.5	56.5				
07	347 22.3	285 46.9 N 20 52.4	288 52.9 N 19 46.4	330 14.6 N 5 58.2	289 48.0 N 19 21.5	357 22.3 S 6 17.5	97 22.7 S 26 31.5	56.5	Alioth	166	13.0	N 55 49.8
08	2 24.8	300 46.9 N 20 52.8	303 52.2 N 19 47.1	345 15.3 N 5 58.9	304 49.8 N 19 21.6	12 24.6 S 6 17.4	111 49.5 S 26 37.4	56.5	Alkaid	152	52.0	N 49 11.6
09	17 27.3	315 46.8 N 20 53.3	318 51.5 N 19 47.9	0 16.0 N 5 59.6	319 51.7 N 19 21.7	27 26.9 S 6 17.4	126 16.2 S 26 43.1	56.5	Alnair	27	33.6	S 46 50.4
10	32 29.7	330 46.8 N 20 53.7	333 50.8 N 19 48.6	15 16.7 N 6 00.3	334 53.5 N 19 21.9	42 29.3 S 6 17.3	140 42.8 S 26 48.7	56.6	Alnilam	275	38.6	S 1 11.2
11	47 32.2	345 46.7 N 20 54.2	348 50.1 N 19 49.3	30 17.4 N 6 01.1	349 55.4 N 19 22.0	57 31.6 S 6 17.3	155 09.4 S 26 54.2	56.6	Alphard	217	48.4	S 8 45.9
12	62 34.6	0 46.6 N 20 54.6	3 49.4 N 19 50.0	45 18.1 N 6 01.8	4 57.2 N 19 22.1	72 33.9 S 6 17.2	169 35.8 S 26 59.5	56.6				
13	77 37.1	15 46.6 N 20 55.1	18 48.7 N 19 50.8	60 18.8 N 6 02.5	19 59.1 N 19 22.2	87 36.2 S 6 17.2	184 02.2 S 27 04.6	56.6	Alphecca	126	03.8	N 26 37.9
14	92 39.6	30 46.5 N 20 55.5	33 48.0 N 19 51.5	75 19.6 N 6 03.2	35 00.9 N 19 22.4	102 38.6 S 6 17.1	198 28.4 S 27 09.6	56.7	Alpheratz	357	35.6	N 29 13.3
15	107 42.0	45 46.4 N 20 56.0	48 47.2 N 19 52.2	90 20.3 N 6 04.0	50 02.8 N 19 22.5	117 40.9 S 6 17.1	212 54.6 S 27 14.5	56.7	Altair	62	00.3	N 8 55.8
16	122 44.5	60 46.4 N 20 56.4	63 46.5 N 19 52.9	105 21.0 N 6 04.7	65 04.6 N 19 22.6	132 43.2 S 6 17.0	227 20.8 S 27 19.2	56.7	Ankaa	353	08.0	S 42 10.3
17	137 47.0	75 46.3 N 20 56.9	78 45.8 N 19 53.7	120 21.7 N 6 05.4	80 06.5 N 19 22.7	147 45.5 S 6 17.0	241 46.8 S 27 23.7	56.7	Antares	112	16.2	S 26 29.2
18	152 49.4	90 46.3 N 20 57.3	93 45.1 N 19 54.4	135 22.4 N 6 06.2	95 08.4 N 19 22.9	162 47.9 S 6 16.9	256 12.8 S 27 28.1	56.7				
19	167 51.9	105 46.2 N 20 57.8	108 44.4 N 19 55.1	150 23.1 N 6 06.9	110 10.2 N 19 23.0	177 50.2 S 6 16.9	270 38.7 S 27 32.4	56.8	Arcturus	145	48.1	N 19 03.3
20	182 54.4	120 46.1 N 20 58.2	123 43.7 N 19 55.8	165 23.8 N 6 07.6	125 12.1 N 19 23.1	192 52.5 S 6 16.8	285 04.5 S 27 36.4	56.8	Atria	107	10.4	S 69 04.2
21	197 56.8	135 46.1 N 20 58.7	138 42.9 N 19 56.5	180 24.5 N 6 08.3	140 13.9 N 19 23.3	207 54.9 S 6 16.8	299 30.3 S 27 40.3	56.8	Avior	234	15.3	S 59 35.5
22	212 59.3	150 46.0 N 20 59.1	153 42.2 N 19 57.3	195 25.2 N 6 09.1	155 15.8 N 19 23.4	222 57.2 S 6 16.8	313 55.9 S 27 44.1	56.8	Bellatrix	278	23.8	N 6 22.3
23	228 01.8	165 46.0 N 20 59.6	168 41.5 N 19 58.0	210 25.9 N 6 09.8	170 17.6 N 19 23.5	237 59.5 S 6 16.7	328 21.6 S 27 47.7	56.8	Betelgeuse	270	53.0	N 7 24.7
25 00	243 04.2	180 45.9 N 21 00.0	183 40.8 N 19 58.7	225 26.6 N 6 10.5	185 19.5 N 19 23.6	253 01.8 S 6 16.7	342 47.1 S 27 51.1	56.9	Canopus	263	53.1	S 52 42.6
01	258 06.7	195 45.8 N 21 00.4	198 40.1 N 19 59.4	240 27.4 N 6 11.2	200 21.3 N 19 23.8	268 04.2 S 6 16.6	357 12.6 S 27 54.4	56.9	Capella	280	23.2	N 46 01.4
02	273 09.1	210 45.8 N 21 00.9	213 39.4 N 20 00.1	255 28.1 N 6 12.0	215 23.2 N 19 23.9	283 06.5 S 6 16.6	11 38.0 S 27 57.5	56.9	Castor	245	58.0	N 31 50.2
03	288 11.6	225 45.7 N 21 01.3	228 38.6 N 20 00.8	270 28.8 N 6 12.7	230 25.1 N 19 24.0	298 08.8 S 6 16.5	26 03.4 S 28 00.5	56.9	Deneb	49	26.0	N 45 21.7
04	303 14.1	240 45.6 N 21 01.8	243 37.9 N 20 01.5	285 29.5 N 6 13.4	245 26.9 N 19 24.2	313 11.2 S 6 16.5	40 28.7 S 28 03.3	57.0	Denebola	182	25.4	N 44 26.2
05	318 16.5	255 45.6 N 21 02.2	258 37.2 N 20 02.3	300 30.2 N 6 14.1	260 28.8 N 19 24.3	328 13.5 S 6 16.4	54 53.9 S 28 05.9	57.0				
06	333 19.0	270 45.5 N 21 02.7	273 36.5 N 20 03.0	315 30.9 N 6 14.9	275 30.6 N 19 24.4	343 15.8 S 6 16.4	69 19.1 S 28 08.3	57.0	Diphda	348	48.1	S 17 51.2
07	348 21.5	285 45.4 N 21 03.1	288 35.8 N 20 03.7	330 31.6 N 6 15.6	290 32.5 N 19 24.5	358 18.1 S 6 16.3	83 44.3 S 28 10.6	57.0	Dubhe	193	41.5	N 61 37.4
08	3 23.9	300 45.4 N 21 03.5	303 35.0 N 20 04.4	345 32.3 N 6 16.3	305 34.3 N 19 24.7	13 20.5 S 6 16.3	98 09.4 S 28 12.7	57.0	Elnath	278	02.9	N 28 37.7
09	18 26.4	315 45.3 N 21 04.0	318 34.3 N 20 05.1	0 33.0 N 6 17.0	320 36.2 N 19 24.8	28 22.8 S 6 16.2	112 34.4 S 28 14.7	57.1	Etamin	90	42.0	N 51 28.9
10	33 28.9	330 45.2 N 21 04.4	333 33.6 N 20 05.8	15 33.7 N 6 17.8	335 38.0 N 19 24.9	43 25.1 S 6 16.2	126 59.4 S 28 16.5	57.1	Enif	33	39.3	N 9 59.0
11	48 31.3	345 45.2 N 21 04.8	348 32.9 N 20 06.5	30 34.4 N 6 18.5	350 39.9 N 19 25.0	58 27.5 S 6 16.1	141 24.3 S 28 18.1	57.1				
12	63 33.8	0 45.1 N 21 05.3	3 32.2 N 20 07.2	45 35.2 N 6 19.2	5 41.8 N 19 25.2	73 29.8 S 6 16.1	155 49.2 S 28 19.5	57.1	Fomalhaut	15	15.2	S 29 29.5
13	78 36.2	15 45.0 N 21 05.7	18 31.4 N 20 07.9	60 35.9 N 6 19.9	20 43.6 N 19 25.3	88 32.1 S 6 16.1	170 14.1 S 28 20.8	57.1	Gacrux	171	51.9	S 57 15.2
14	93 38.7	30 45.0 N 21 06.2	33 30.7 N 20 08.6	75 36.6 N 6 20.7	35 45.5 N 19 25.4	103 34.5 S 6 16.0	184 38.9 S 28 21.9	57.2	Gienah	175	44.0	S 17 40.8
15	108 41.2	45 44.9 N 21 06.6	48 30.0 N 20 09.3	90 37.3 N 6 21.4	50 47.3 N 19 25.6	118 36.8 S 6 16.0	199 03.7 S 28 22.8	57.2	Hadar	148	36.2	S 60 29.6
16	123 43.6	60 44.8 N 21 07.0	63 29.3 N 20 10.0	105 38.0 N 6 22.1	65 49.2 N 19 25.7	133 39.1 S 6 15.9	213 28.4 S 28 23.6	57.2	Hamal	327	52.2	N 23 34.5
17	138 46.1	75 44.8 N 21 07.5	78 28.5 N 20 10.7	120 38.7 N 6 22.8	80 51.0 N 19 25.8	148 41.5 S 6 15.9	227 53.2 S 28 24.2	57.2				
18	153 48.6	90 44.7 N 21 07.9	93 27.8 N 20 11.4	135 39.4 N 6 23.6	95 52.9 N 19 25.9	163 43.8 S 6 15.8	242 17.8 S 28 24.6	57.2	Kaus aust.	83	32.9	S 34 22.3
19	168 51.0	105 44.6 N 21 08.3	108 27.1 N 20 12.1	150 40.1 N 6 24.3	110 54.7 N 19 26.1	178 46.1 S 6 15.8	256 42.5 S 28 24.8	57.3	Kochab	137	18.6	N 74 03.4
20	183 53.5	120 44.6 N 21 08.8	123 26.3 N 20 12.8	165 40.8 N 6 25.0	125 56.6 N 19 26.2	193 48.4 S 6 15.7	271 07.1 S 28 24.8	57.3	Markab	13	30.6	N 15 20.0
21	198 56.0	135 44.5 N 21 09.2	138 25.6 N 20 13.5	180 41.5 N 6 25.7	140 58.3 N 19 26.3	208 50.8 S 6 15.7	285 31.7 S 28 24.7	57.3	Menkar	314	07.1	N 4 11.0
22	213 58.4	150 44.4 N 21 09.6	153 24.9 N 20 14.2	195 42.2 N 6 26.5	156 00.5 N 19 26.4	223 53.1 S 6 15.6	299 56.3 S 28 24.4	57.3	Menkent	147	57.9	S 36 29.5
23	229 00.9	165 44.4 N 21 10.0	168 24.2 N 20 14.9	210 43.0 N 6 27.2	171 02.2 N 19 26.6	238 55.4 S 6 15.6	314 20.9 S 28 24.0	57.3				
26 00	244 03.4	180 44.3 N 21 10.5	183 23.4 N 20 15.6	225 43.7 N 6 27.9	186 04.0 N 19 26.7	253 57.8 S 6 15.6	328 45.4 S 28 23.3	57.4	Miaplacidus	221	38.7	S 69 49.3
01	259 05.8	195 44.2 N 21 10.9	198 22.7 N 20 16.3	240 44.4 N 6 28.6	201 05.9 N 19 26.8	269 00.1 S 6 15.5	343 09.9 S 28 22.5	57.4	Mirfak	308	29.6	N 49 56.8
02	274 08.3	210 44.2 N 21 11.3	213 22.0 N 20 17.0	255 45.1 N 6 29.4	216 07.7 N 19 26.9	284 02.4 S 6 15.5	357 34.5 S 28 21.5	57.4	Mizar	158	45.9	N 54 48.0
03	289 10.7	225 44.1 N 21 11.8	228 21.2 N 20 17.6	270 45.8 N 6 30.1	231 09.6 N 19 27.1	299 04.8 S 6 15.4	11 59.0 S 28 20.4	57.4	Nunki	75	48.2	S 26 16.0
04	304 13.2	240 44.0 N 21 12.2	243 20.5 N 20 18.3	285 46.5 N 6 30.8	246 11.4 N 19 27.2	314 07.1 S 6 15.4	26 23.5 S 28 19.0	57.5	Peacock	53	06.3	S 56 39.2
05	319 15.7	255 44.0 N 21 12.6	258 19.8 N 20 19.0	300 47.2 N 6 31.5	261 13.3 N 19 27.3	329 09.4 S 6 15.3	40 48.0 S 28 17.5	57.5	Polaris	314	48.3	N 89 21.9
06	334 18.1	270 43.9 N 21 13.0	273 19.1 N 20 19.7	315 47.9 N 6 32.2	276 15.2 N 19 27.5	344 11.8 S 6 15.3	55 12.4 S 28 15.8	57.5	Pollux	243	18.2	N 27 58.1
07	349 20.6	285 43.8 N 21 13.5	288 18.3 N 20 20.4	330 48.6 N 6 33.0	291 17.0 N 19 27.6	359 14.1 S 6 15.2	69 36.9 S 28 13.9	57.5	Procyon	244	51.6	N 5 09.7
08	4 23.1	300 43.8 N 21 13.9	303 17.6 N 20 21.1	345 49.3 N 6 33.7	306 18.9 N 19 27.7	14 16.4 S 6 15.2	84 01.4 S 28 11.9	57.5	Rasalhague	95	58.7	N 12 32.4
09	19 25.5	315 43.7 N 21										

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	MAGGIO	22
d h	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "
27 00	245 02.5	180 42.6 N 21 20.6	183 05.8 N 20 31.9	226 00.7 N 6 45.2	186 48.5 N 19 29.7	254 53.8 S 6 14.5	314 34.8 S 27 15.2	57.8	NOME	360	- AR	Dec.
01	260 05.0	195 42.5 N 21 21.0	198 05.1 N 20 32.6	241 01.4 N 6 45.9	201 50.4 N 19 29.8	269 56.1 S 6 14.4	328 59.6 S 27 10.1	57.9	Acamar	315	12.6	S 40 12.4
02	275 07.4	210 42.5 N 21 21.4	213 04.3 N 20 33.2	256 02.1 N 6 46.7	216 52.3 N 19 30.0	284 58.5 S 6 14.4	343 24.4 S 27 05.0	57.9	Achernar	335	21.0	S 57 06.6
03	290 09.9	225 42.4 N 21 21.8	228 03.6 N 20 33.9	271 02.8 N 6 47.4	231 54.1 N 19 30.1	300 00.8 S 6 14.3	357 49.3 S 26 59.6	57.9	Acruz	173	00.4	S 63 14.3
04	305 12.4	240 42.3 N 21 22.2	243 02.8 N 20 34.6	286 03.5 N 6 48.1	246 56.0 N 19 30.2	315 03.1 S 6 14.3	12 14.2 S 26 54.1	57.9	Adhara	255	06.6	S 29 00.4
05	320 14.8	255 42.2 N 21 22.6	258 02.1 N 20 35.2	301 04.2 N 6 48.8	261 57.8 N 19 30.4	330 05.5 S 6 14.3	26 39.1 S 26 48.4	57.9	Aldebaran	290	40.6	N 16 33.4
06	335 17.3	270 42.2 N 21 23.0	273 01.4 N 20 35.9	316 04.9 N 6 49.5	276 59.7 N 19 30.5	345 07.8 S 6 14.2	41 04.1 S 26 42.5	58.0				
07	350 19.7	285 42.1 N 21 23.5	288 00.6 N 20 36.6	331 05.6 N 6 50.3	292 01.5 N 19 30.6	0 10.1 S 6 14.2	55 29.2 S 26 36.5	58.0	Alioth	166	13.0	N 55 49.8
08	5 22.2	300 42.0 N 21 23.9	302 59.9 N 20 37.2	346 06.3 N 6 51.0	307 03.4 N 19 30.7	15 12.5 S 6 14.1	69 54.3 S 26 30.3	58.0	Alkaid	152	52.0	N 49 11.6
09	20 24.7	315 41.9 N 21 24.3	317 59.1 N 20 37.9	1 07.1 N 6 51.7	322 05.2 N 19 30.9	30 14.8 S 6 14.1	84 19.4 S 26 23.9	58.0	Alnair	27	33.6	S 46 50.4
10	35 27.1	330 41.9 N 21 24.7	332 58.4 N 20 38.5	16 07.8 N 6 52.4	337 07.1 N 19 31.0	45 17.1 S 6 14.0	98 44.6 S 26 17.4	58.0	Alnilam	275	38.6	S 1 11.2
11	50 29.6	345 41.8 N 21 25.1	347 57.6 N 20 39.2	31 08.5 N 6 53.1	352 09.0 N 19 31.1	60 19.5 S 6 14.0	113 09.8 S 26 10.7	58.0	Alphard	217	48.4	S 8 45.9
12	65 32.1	0 41.7 N 21 25.5	2 56.9 N 20 39.9	46 09.2 N 6 53.9	7 10.8 N 19 31.2	75 21.8 S 6 14.0	127 35.1 S 26 03.8	58.1				
13	80 34.5	15 41.6 N 21 25.9	17 56.1 N 20 40.5	61 09.9 N 6 54.6	22 12.7 N 19 31.4	90 24.2 S 6 13.9	142 00.4 S 25 56.8	58.1	Alphecca	126	03.8	N 26 37.9
14	95 37.0	30 41.6 N 21 26.3	32 55.4 N 20 41.2	76 10.6 N 6 55.3	37 14.5 N 19 31.5	105 26.5 S 6 13.9	156 25.8 S 25 49.6	58.1	Alpheratz	357	35.5	N 29 13.3
15	110 39.5	45 41.5 N 21 26.7	47 54.7 N 20 41.8	91 11.3 N 6 56.0	52 16.4 N 19 31.6	120 28.8 S 6 13.8	170 51.2 S 25 42.3	58.1	Altair	62	00.3	N 8 55.8
16	125 41.9	60 41.4 N 21 27.1	62 53.9 N 20 42.5	106 12.0 N 6 56.7	67 18.2 N 19 31.7	135 31.2 S 6 13.8	185 16.7 S 25 34.8	58.1	Ankaa	353	07.9	S 42 10.3
17	140 44.4	75 41.3 N 21 27.5	77 53.2 N 20 43.1	121 12.7 N 6 57.4	82 20.1 N 19 31.9	150 33.5 S 6 13.7	199 42.3 S 25 27.1	58.1	Antares	112	16.1	S 26 29.2
18	155 46.9	90 41.3 N 21 27.9	92 52.4 N 20 43.8	136 13.4 N 6 58.2	97 21.9 N 19 32.0	165 35.8 S 6 13.7	214 07.9 S 25 19.3	58.2				
19	170 49.3	105 41.2 N 21 28.3	107 51.7 N 20 44.4	151 14.1 N 6 58.9	112 23.8 N 19 32.1	180 38.2 S 6 13.7	228 33.6 S 25 11.3	58.2	Arcturus	145	48.1	N 19 03.3
20	185 51.8	120 41.1 N 21 28.7	122 50.9 N 20 45.1	166 14.8 N 6 59.6	127 25.7 N 19 32.2	195 40.5 S 6 13.6	242 59.3 S 25 03.2	58.2	Atria	107	10.3	S 69 04.2
21	200 54.2	135 41.0 N 21 29.1	137 50.2 N 20 45.7	181 15.6 N 7 00.3	142 27.5 N 19 32.4	210 42.9 S 6 13.6	257 25.1 S 24 54.9	58.2	Avior	234	15.3	S 59 35.5
22	215 56.7	150 40.9 N 21 29.5	152 49.4 N 20 46.4	196 16.3 N 7 01.0	157 29.4 N 19 32.5	225 45.2 S 6 13.5	271 51.0 S 24 46.5	58.2	Bellatrix	278	23.8	N 6 22.3
23	230 59.2	165 40.9 N 21 29.9	167 48.7 N 20 47.0	211 17.0 N 7 01.7	172 31.2 N 19 32.6	240 47.5 S 6 13.5	286 16.9 S 24 37.9	58.3	Betelgeuse	270	53.0	N 7 24.7
28 00	246 01.6	180 40.8 N 21 30.3	182 47.9 N 20 47.7	226 17.7 N 7 02.5	187 33.1 N 19 32.7	255 49.9 S 6 13.4	300 42.9 S 24 29.1	58.3	Canopus	263	53.1	S 52 42.6
01	261 04.1	195 40.7 N 21 30.7	197 47.2 N 20 48.3	241 18.4 N 7 03.2	202 34.9 N 19 32.9	270 52.2 S 6 13.4	315 09.0 S 24 20.2	58.3	Capella	280	23.2	N 46 01.4
02	276 06.6	210 40.6 N 21 31.1	212 46.4 N 20 49.0	256 19.1 N 7 03.9	217 36.8 N 19 33.0	285 54.6 S 6 13.4	329 35.1 S 24 11.2	58.3	Castor	245	58.0	N 31 50.2
03	291 09.0	225 40.6 N 21 31.5	227 45.7 N 20 49.6	271 19.8 N 7 04.6	232 38.6 N 19 33.1	300 56.9 S 6 13.3	344 01.3 S 24 02.0	58.3	Deneb	49	26.0	N 45 21.7
04	306 11.5	240 40.5 N 21 31.9	242 44.9 N 20 50.3	286 20.5 N 7 05.3	247 40.5 N 19 33.2	315 59.2 S 6 13.3	358 27.6 S 23 52.7	58.3	Denebola	182	25.4	N 44 26.2
05	321 14.0	255 40.4 N 21 32.3	257 44.1 N 20 50.9	301 21.2 N 7 06.0	262 42.4 N 19 33.4	331 01.6 S 6 13.2	12 53.9 S 23 43.2	58.4				
06	336 16.4	270 40.3 N 21 32.7	272 43.4 N 20 51.5	316 21.9 N 7 06.8	277 44.2 N 19 33.5	346 03.9 S 6 13.2	27 20.3 S 23 33.6	58.4	Diphda	348	48.1	S 17 51.2
07	351 18.9	285 40.2 N 21 33.1	287 42.6 N 20 52.2	331 22.6 N 7 07.5	292 46.1 N 19 33.6	1 06.2 S 6 13.1	41 46.8 S 23 23.8	58.4	Dubhe	193	41.5	N 61 37.4
08	6 21.4	300 40.2 N 21 33.5	302 41.9 N 20 52.8	346 23.3 N 7 08.2	307 47.9 N 19 33.7	16 08.6 S 6 13.1	56 13.4 S 23 13.9	58.4	Elnath	278	02.9	N 28 37.7
09	21 23.8	315 40.1 N 21 33.9	317 41.1 N 20 53.4	1 24.1 N 7 08.9	322 49.8 N 19 33.8	31 10.9 S 6 13.1	70 40.0 S 23 03.8	58.4	Etamin	90	42.0	N 51 28.9
10	36 26.3	330 40.0 N 21 34.3	332 40.4 N 20 54.1	16 24.8 N 7 09.6	337 51.6 N 19 34.0	46 13.3 S 6 13.0	85 06.7 S 22 53.6	58.4	Enif	33	39.3	N 9 59.0
11	51 28.7	345 39.9 N 21 34.7	347 39.6 N 20 54.7	31 25.5 N 7 10.3	352 53.5 N 19 34.1	61 15.6 S 6 13.0	99 33.4 S 22 43.3	58.5				
12	66 31.2	0 39.8 N 21 35.0	2 38.9 N 20 55.4	46 26.2 N 7 11.1	7 55.3 N 19 34.2	76 17.9 S 6 12.9	114 00.3 S 22 32.8	58.5	Fomalhaut	15	15.2	S 29 29.5
13	81 33.7	15 39.8 N 21 35.4	17 38.1 N 20 56.0	61 26.9 N 7 11.8	22 57.2 N 19 34.3	91 20.3 S 6 12.9	128 27.2 S 22 22.2	58.5	Gacrux	171	52.0	S 57 15.2
14	96 36.1	30 39.7 N 21 35.8	32 37.3 N 20 56.6	76 27.6 N 7 12.5	37 59.1 N 19 34.5	106 22.6 S 6 12.9	142 54.2 S 22 11.5	58.5	Gienah	175	44.0	S 17 40.8
15	111 38.6	45 39.6 N 21 36.2	47 36.6 N 20 57.2	91 28.3 N 7 13.2	53 00.9 N 19 34.6	121 25.0 S 6 12.8	157 21.2 S 22 00.6	58.5	Hadar	148	36.2	S 60 29.6
16	126 41.1	60 39.5 N 21 36.6	62 35.8 N 20 57.9	106 29.0 N 7 13.9	68 02.8 N 19 34.7	136 27.3 S 6 12.8	171 48.4 S 21 49.6	58.5	Hamal	327	52.1	N 23 34.5
17	141 43.5	75 39.4 N 21 37.0	77 35.1 N 20 58.5	121 29.7 N 7 14.6	83 04.6 N 19 34.8	151 29.7 S 6 12.7	186 15.6 S 21 38.5	58.5				
18	156 46.0	90 39.3 N 21 37.4	92 34.3 N 20 59.1	136 30.4 N 7 15.3	98 06.5 N 19 35.0	166 32.0 S 6 12.7	200 42.9 S 21 27.2	58.6	Kaus aust.	83	32.9	S 34 22.3
19	171 48.5	105 39.3 N 21 37.8	107 33.6 N 20 59.8	151 31.1 N 7 16.0	113 08.3 N 19 35.1	181 34.3 S 6 12.6	215 10.2 S 21 15.8	58.6	Kochab	137	18.6	N 74 03.4
20	186 50.9	120 39.2 N 21 38.1	122 32.8 N 21 00.4	166 31.8 N 7 16.8	128 10.2 N 19 35.2	196 36.7 S 6 12.6	229 37.6 S 21 04.3	58.6	Markab	13	30.5	N 15 20.0
21	201 53.4	135 39.1 N 21 38.5	137 32.0 N 21 01.0	181 32.6 N 7 17.5	143 12.0 N 19 35.3	211 39.0 S 6 12.6	244 05.2 S 20 52.6	58.6	Menkar	314	07.0	N 4 11.0
22	216 55.9	150 39.0 N 21 38.9	152 31.3 N 21 01.6	196 33.3 N 7 18.2	158 13.9 N 19 35.5	226 41.4 S 6 12.5	258 32.7 S 20 40.9	58.6	Menkent	147	57.9	S 36 29.5
23	231 58.3	165 38.9 N 21 39.3	167 30.5 N 21 02.3	211 34.0 N 7 18.9	173 15.8 N 19 35.6	241 43.7 S 6 12.5	273 00.4 S 20 29.0	58.6				
29 00	247 00.8	180 38.9 N 21 39.7	182 29.8 N 21 02.9	226 34.7 N 7 19.6	188 17.6 N 19 35.7	256 46.0 S 6 12.4	287 28.1 S 20 17.0	58.7	Miaplacidus	221	38.7	S 69 49.3
01	262 03.2	195 38.8 N 21 40.1	197 29.0 N 21 03.5	241 35.4 N 7 20.3	203 19.5 N 19 35.8	271 48.4 S 6 12.4	301 55.9 S 20 04.8	58.7	Mirfak	308	29.6	N 49 56.8
02	277 05.7	210 38.7 N 21 40.4	212 28.2 N 21 04.1	256 36.1 N 7 21.0	218 21.3 N 19 36.0	286 50.7 S 6 12.4	316 23.8 S 19 52.6	58.7	Mizar	158	45.9	N 54 48.0
03	292 08.2	225 38.6 N 21 40.8	227 27.5 N 21 04.7	271 36.8 N 7 21.8	233 23.2 N 19 36.1	301 53.1 S 6 12.3	330 51.7 S 19 40.2	58.7	Nunki	75	48.2	S 26 16.0
04	307 10.6	240 38.5 N 21 41.2	242 26.5 N 21 05.4	286 37.5 N 7 22.5	248 25.0 N 19 36.2	316 55.4 S 6 12.3	345 19.8 S 19 27.7	58.7	Peacock	53	06.3	S 56 39.2
05	322 13.1	255 38.4 N 21 41.6	257 25.9 N 21 06.0	301 38.2 N 7 23.2	263 26.9 N 19 36.3	331 57.8 S 6 12.2	359 47.9 S 19 15.1	58.7	Polaris	314	47.7	N 89 21.9
06	337 15.6	270 38.3 N 21 42.0	272 25.2 N 21 06.6	316 38.9 N 7 23.9	278 28.7 N 19 36.5	347 00.1 S 6 12.2	14 16.0 S 19 02.4	58.7	Pollux	243	18.2	N 27 58.1
07	352 18.0	285 38.3 N 21 42.3	287 24.4 N 21 07.2	331 39.6 N 7 24.6	293 30.6 N 19 36.6	2 02.4 S 6 12.2	28 44.3 S 18 49.6	58.8	Procyon	244	51.6	N 5 09.7
08	7 20.5	300 38.2 N 21 42.7	302 23.6 N 21 07.8	346 40.3 N 7 25.3	308 32.5 N 19 36.7	17 04.8 S 6 12.1	43 12.6 S 18 36.7	58.8	Rasalhague	95	58.7	N 12 32.4
09	22 23.0	315 38.1 N										

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	MAGGIO	25
d h	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "				
30 00	247 59.9	180 36.8	N 21 48.7	182 11.3	N 21 17.5	226 51.7	N 7 36.7	189 02.1	N 19 38.7	257 42.3	S 6 11.5	274 54.9	S 14 56.1	59.0	NOME	360	- AR	Dec.
01	263 02.4	195 36.7	N 21 49.0	197 10.6	N 21 18.1	241 52.4	N 7 37.4	204 04.0	N 19 38.8	272 44.6	S 6 11.4	289 24.4	S 14 41.5	59.0	Acamar	315 12.6	S 40 12.4	
02	278 04.8	210 36.6	N 21 49.4	212 09.8	N 21 18.7	256 53.1	N 7 38.1	219 05.9	N 19 38.9	287 47.0	S 6 11.4	303 53.9	S 14 26.8	59.0	Achernar	335 21.0	S 57 06.6	
03	293 07.3	225 36.5	N 21 49.8	227 09.0	N 21 19.3	271 53.8	N 7 38.8	234 07.7	N 19 39.0	302 49.3	S 6 11.4	318 23.5	S 14 12.1	59.0	AcruX	173 00.4	S 63 14.3	
04	308 09.8	240 36.4	N 21 50.1	242 08.2	N 21 19.9	286 54.5	N 7 39.5	249 09.6	N 19 39.2	317 51.7	S 6 11.3	332 53.1	S 13 57.3	59.0	Adhara	255 06.6	S 29 00.4	
05	323 12.2	255 36.4	N 21 50.5	257 07.5	N 21 20.5	301 55.2	N 7 40.2	264 11.4	N 19 39.3	332 54.0	S 6 11.3	347 22.8	S 13 42.4	59.1	Aldebaran	290 40.6	N 16 33.4	
06	338 14.7	270 36.3	N 21 50.9	272 06.7	N 21 21.1	316 55.9	N 7 40.9	279 13.3	N 19 39.4	347 56.4	S 6 11.2	1 52.5	S 13 27.4	59.1				
07	353 17.2	285 36.2	N 21 51.2	287 05.9	N 21 21.7	331 56.6	N 7 41.6	294 15.1	N 19 39.5	2 58.7	S 6 11.2	16 22.3	S 13 12.3	59.1	Alioth	166 13.1	N 55 49.9	
08	8 19.6	300 36.1	N 21 51.6	302 05.1	N 21 22.2	346 57.3	N 7 42.4	309 17.0	N 19 39.6	18 01.1	S 6 11.2	30 52.1	S 12 57.2	59.1	Alkaid	152 52.0	N 49 11.6	
09	23 22.1	315 36.0	N 21 51.9	317 04.4	N 21 22.8	1 58.0	N 7 43.1	324 18.8	N 19 39.8	33 03.4	S 6 11.1	45 22.0	S 12 42.0	59.1	Alnair	27 33.5	S 46 50.4	
10	38 24.6	330 35.9	N 21 52.3	332 03.6	N 21 23.4	16 58.7	N 7 43.8	339 20.7	N 19 39.9	48 05.8	S 6 11.1	59 52.0	S 12 26.7	59.1	Alnilam	275 38.6	S 1 11.2	
11	53 27.0	345 35.8	N 21 52.7	347 02.8	N 21 24.0	31 59.4	N 7 44.5	354 22.6	N 19 40.0	63 08.1	S 6 11.0	74 22.0	S 12 11.4	59.1	Alphard	217 48.4	S 8 45.9	
12	68 29.5	0 35.7	N 21 53.0	2 02.0	N 21 24.6	47 00.1	N 7 45.2	9 24.4	N 19 40.1	78 10.5	S 6 11.0	88 52.1	S 11 56.0	59.1				
13	83 32.0	15 35.6	N 21 53.4	17 01.3	N 21 25.2	62 00.8	N 7 45.9	24 26.3	N 19 40.3	93 12.8	S 6 11.0	103 22.2	S 11 40.5	59.1	Alphecca	126 03.8	N 26 37.9	
14	98 34.4	30 35.6	N 21 53.7	32 00.5	N 21 25.8	77 01.5	N 7 46.6	39 28.1	N 19 40.4	108 15.2	S 6 10.9	117 52.3	S 11 24.9	59.2	Alpheratz	357 35.5	N 29 13.3	
15	113 36.9	45 35.5	N 21 54.1	46 59.7	N 21 26.3	92 02.3	N 7 47.3	54 30.0	N 19 40.5	123 17.5	S 6 10.9	132 22.5	S 11 09.3	59.2	Altair	62 00.3	N 8 55.8	
16	128 39.3	60 35.4	N 21 54.5	61 58.9	N 21 26.9	107 03.0	N 7 48.0	69 31.8	N 19 40.6	138 19.8	S 6 10.8	146 52.8	S 10 53.6	59.2	Ankaa	353 07.9	S 42 10.3	
17	143 41.8	75 35.3	N 21 54.8	76 58.1	N 21 27.5	122 03.7	N 7 48.7	84 33.7	N 19 40.7	153 22.2	S 6 10.8	161 23.1	S 10 37.9	59.2	Antares	112 16.1	S 26 29.2	
18	158 44.3	90 35.2	N 21 55.2	91 57.4	N 21 28.1	137 04.4	N 7 49.4	99 35.5	N 19 40.9	168 24.5	S 6 10.8	175 53.4	S 10 22.1	59.2				
19	173 46.7	105 35.1	N 21 55.5	106 56.6	N 21 28.7	152 05.1	N 7 50.1	114 37.4	N 19 41.0	183 26.9	S 6 10.7	190 23.8	S 10 06.2	59.2	Arcturus	145 48.1	N 19 03.3	
20	188 49.2	120 35.0	N 21 55.9	121 55.8	N 21 29.2	167 05.8	N 7 50.8	129 39.3	N 19 41.1	198 29.2	S 6 10.7	204 54.2	S 9 50.3	59.2	Atria	107 10.3	S 69 04.2	
21	203 51.7	135 34.9	N 21 56.2	136 55.0	N 21 29.8	182 06.5	N 7 51.5	144 41.1	N 19 41.2	213 31.6	S 6 10.7	219 24.6	S 9 34.4	59.2	Avior	234 15.3	S 59 35.5	
22	218 54.1	150 34.8	N 21 56.6	151 54.2	N 21 30.4	197 07.2	N 7 52.3	159 43.0	N 19 41.4	228 33.9	S 6 10.6	233 55.1	S 9 18.3	59.2	Bellatrix	278 23.8	N 6 22.3	
23	233 56.6	165 34.7	N 21 56.9	166 53.4	N 21 31.0	212 07.9	N 7 53.0	174 44.8	N 19 41.5	243 36.3	S 6 10.6	248 25.7	S 9 02.3	59.3	Betelgeuse	270 53.0	N 7 24.7	
31 00	248 59.1	180 34.6	N 21 57.3	181 52.7	N 21 31.5	227 08.6	N 7 53.7	189 46.7	N 19 41.6	258 38.6	S 6 10.5	262 56.2	S 8 46.1	59.3	Canopus	263 53.1	S 52 42.6	
01	264 01.5	195 34.5	N 21 57.6	196 51.9	N 21 32.1	242 09.3	N 7 54.4	204 48.5	N 19 41.7	273 41.0	S 6 10.5	277 26.8	S 8 29.9	59.3	Capella	280 23.2	N 46 01.4	
02	279 04.0	210 34.5	N 21 58.0	211 51.1	N 21 32.7	257 10.0	N 7 55.1	219 50.4	N 19 41.8	288 43.3	S 6 10.5	291 57.5	S 8 13.7	59.3	Castor	245 58.0	N 31 50.2	
03	294 06.4	225 34.4	N 21 58.3	226 50.3	N 21 33.2	272 10.7	N 7 55.8	234 52.3	N 19 42.0	303 45.7	S 6 10.4	306 28.2	S 7 57.4	59.3	Deneb	49 26.0	N 45 21.7	
04	309 08.9	240 34.3	N 21 58.7	241 49.5	N 21 33.8	287 11.4	N 7 56.5	249 54.1	N 19 42.1	318 48.0	S 6 10.4	320 58.9	S 7 41.1	59.3	Denebola	182 25.4	N 44 26.2	
05	324 11.4	255 34.2	N 21 59.0	256 48.7	N 21 34.4	302 12.1	N 7 57.2	264 56.0	N 19 42.2	333 50.4	S 6 10.4	335 29.6	S 7 24.7	59.3				
06	339 13.8	270 34.1	N 21 59.4	271 48.0	N 21 35.0	317 12.9	N 7 57.9	279 57.8	N 19 42.3	348 52.7	S 6 10.3	350 00.4	S 7 08.3	59.3	Diphda	348 48.0	S 17 51.2	
07	354 16.3	285 34.0	N 21 59.7	286 47.2	N 21 35.5	332 13.6	N 7 58.6	294 57.7	N 19 42.5	3 55.1	S 6 10.3	4 31.1	S 6 51.9	59.3	Dubhe	193 41.5	N 61 37.4	
08	9 18.8	300 33.9	N 22 00.1	301 46.4	N 21 36.1	347 14.3	N 7 59.3	310 01.5	N 19 42.6	18 57.4	S 6 10.2	19 02.0	S 6 35.4	59.3	Elnath	278 02.9	N 28 37.7	
09	24 21.2	315 33.8	N 22 00.4	316 45.6	N 21 36.6	2 15.0	N 8 00.0	325 03.4	N 19 42.7	33 59.8	S 6 10.2	33 32.8	S 6 18.9	59.4	Etamin	90 41.9	N 51 28.9	
10	39 23.7	330 33.7	N 22 00.8	331 44.8	N 21 37.2	17 15.7	N 8 00.7	340 05.2	N 19 42.8	49 02.1	S 6 10.2	48 03.7	S 6 02.3	59.4	Enif	33 39.3	N 9 59.1	
11	54 26.2	345 33.6	N 22 01.1	346 44.0	N 21 37.8	32 16.4	N 8 01.4	355 07.1	N 19 42.9	64 04.5	S 6 10.1	62 34.6	S 5 45.7	59.4				
12	69 28.6	0 33.5	N 22 01.5	1 43.2	N 21 38.3	47 17.1	N 8 02.1	10 09.0	N 19 43.1	79 06.8	S 6 10.1	77 05.5	S 5 29.1	59.4	Fomalhaut	15 15.2	S 29 29.5	
13	84 31.1	15 33.4	N 22 01.8	16 42.5	N 21 38.9	62 17.8	N 8 02.8	25 10.8	N 19 43.2	94 09.2	S 6 10.1	91 36.4	S 5 12.4	59.4	Gacrux	171 52.0	S 57 15.2	
14	99 33.6	30 33.3	N 22 02.1	31 41.7	N 21 39.4	77 18.5	N 8 03.5	40 12.7	N 19 43.3	109 11.5	S 6 10.0	106 07.3	S 4 55.7	59.4	Gienah	175 44.0	S 17 40.8	
15	114 36.0	45 33.2	N 22 02.5	46 40.9	N 21 40.0	92 19.2	N 8 04.2	55 14.5	N 19 43.4	124 13.9	S 6 10.0	120 38.3	S 4 39.0	59.4	Hadar	148 36.2	S 60 29.6	
16	129 38.5	60 33.1	N 22 02.8	61 40.1	N 21 40.6	107 19.9	N 8 04.9	70 16.4	N 19 43.5	139 16.2	S 6 09.9	135 09.3	S 4 22.2	59.4	Hamal	327 52.1	N 23 34.5	
17	144 40.9	75 33.0	N 22 03.2	76 39.3	N 21 41.1	122 20.6	N 8 05.6	85 18.2	N 19 43.7	154 18.6	S 6 09.9	149 40.3	S 4 05.4	59.4				
18	159 43.4	90 32.9	N 22 03.5	91 38.5	N 21 41.7	137 21.3	N 8 06.3	100 20.1	N 19 43.8	169 20.9	S 6 09.9	164 11.3	S 3 48.6	59.4	Kaus aust.	83 32.9	S 34 22.3	
19	174 45.9	105 32.8	N 22 03.8	106 37.7	N 21 42.2	152 22.0	N 8 07.0	115 22.0	N 19 43.9	184 23.3	S 6 09.8	178 42.3	S 3 31.8	59.4	Kochab	137 18.6	N 74 03.4	
20	189 48.3	120 32.8	N 22 04.2	121 36.9	N 21 42.8	167 22.7	N 8 07.7	130 23.8	N 19 44.0	199 25.6	S 6 09.8	193 13.3	S 3 14.9	59.4	Markab	13 30.5	N 51 20.0	
21	204 50.8	135 32.7	N 22 04.5	136 36.1	N 21 43.3	182 23.4	N 8 08.4	145 25.7	N 19 44.1	214 28.0	S 6 09.8	207 44.4	S 2 58.1	59.4	Menkar	314 07.0	N 4 11.0	
22	219 53.3	150 32.6	N 22 04.8	151 35.3	N 21 43.9	197 24.2	N 8 09.1	160 27.5	N 19 44.3	229 30.3	S 6 09.7	222 15.4	S 2 41.2	59.5	Menkent	147 57.9	S 36 29.5	
23	234 55.7	165 32.5	N 22 05.2	166 34.5	N 21 44.4	212 24.9	N 8 09.8	175 29.4	N 19 44.4	244 32.7	S 6 09.7	236 46.5	S 2 24.3	59.5				
Giu 01 00	249 58.2	180 32.4	N 22 05.5	181 33.8	N 21 45.0	227 25.6	N 8 10.6	190 31.2	N 19 44.5	259 35.1	S 6 09.6	251 17.5	S 2 07.3	59.5	Miaplacidus	221 38.7	S 69 49.3	
01	265 00.7	195 32.3	N 22 05.9	196 33.0	N 21 45.5	242 26.3	N 8 11.3	205 33.1	N 19 44.6	274 37.4	S 6 09.6	265 48.6	S 1 50.4	59.5	Mirfak	308 29.5	N 49 56.7	

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	MAGGIO	28
d h	' °	' °	' °	' °	' °	' °	' °	' °	NOME	360	- AR	Dec.
02 00	250 57.3	180 30.0 N 22 13.4	181 14.6 N 21 57.8	227 42.5 N 8 27.3	191 15.8 N 19 47.4	260 31.6 S 6 08.8	239 40.8 N 4 39.9	59.6	NOME	360	- AR	Dec.
01	265 59.8	195 29.9 N 22 13.7	196 13.8 N 21 58.3	242 43.2 N 8 28.0	206 17.6 N 19 47.5	275 33.9 S 6 08.8	254 11.5 N 4 56.7	59.6	Acamar	315	12.6	S 40 12.4
02	281 02.3	210 29.8 N 22 14.0	211 13.0 N 21 58.8	257 43.9 N 8 28.7	221 19.5 N 19 47.6	290 36.3 S 6 08.7	268 42.2 N 5 13.6	59.6	Achernar	335	21.0	S 57 06.6
03	296 04.7	225 29.7 N 22 14.3	226 12.2 N 21 59.4	272 44.6 N 8 29.4	236 21.4 N 19 47.7	305 38.6 S 6 08.7	283 12.9 N 5 30.4	59.6	Acruz	173	00.4	S 63 14.3
04	311 07.2	240 29.6 N 22 14.6	241 11.4 N 21 59.9	287 45.3 N 8 30.1	251 23.2 N 19 47.9	320 41.0 S 6 08.7	297 43.5 N 5 47.1	59.6	Adhara	255	06.6	S 29 00.4
05	326 09.7	255 29.5 N 22 15.0	256 10.6 N 22 00.4	302 46.0 N 8 30.8	266 25.1 N 19 48.0	335 43.3 S 6 08.6	312 14.1 N 6 03.9	59.6	Aldebaran	290	40.6	N 16 33.5
06	341 12.1	270 29.4 N 22 15.3	271 09.8 N 22 00.9	317 46.7 N 8 31.5	281 26.9 N 19 48.1	350 45.7 S 6 08.6	326 44.7 N 6 20.6	59.6				
07	356 14.6	285 29.3 N 22 15.6	286 09.0 N 22 01.4	332 47.4 N 8 32.2	296 28.8 N 19 48.2	5 48.0 S 6 08.5	341 15.2 N 6 37.3	59.6	Alioth	166	13.1	N 55 49.9
08	11 17.0	300 29.2 N 22 15.9	301 08.2 N 22 01.9	347 48.1 N 8 32.9	311 30.6 N 19 48.3	20 50.4 S 6 08.5	355 45.7 N 6 53.9	59.6	Alkaid	152	52.0	N 49 11.6
09	26 19.5	315 29.1 N 22 16.2	316 07.4 N 22 02.4	2 48.9 N 8 33.6	326 32.5 N 19 48.5	35 52.8 S 6 08.5	10 16.1 N 7 10.5	59.6	Alnair	27	33.5	S 46 50.4
10	41 22.0	330 29.0 N 22 16.5	331 06.6 N 22 03.0	17 49.6 N 8 34.3	341 34.4 N 19 48.6	50 55.1 S 6 08.4	24 46.6 N 7 27.1	59.6	Alnilam	275	38.6	S 1 11.2
11	56 24.4	345 28.9 N 22 16.8	346 05.7 N 22 03.5	32 50.3 N 8 35.0	356 36.2 N 19 48.7	65 57.5 S 6 08.4	39 16.9 N 7 43.6	59.6	Alphard	217	48.4	S 8 45.9
12	71 26.9	0 28.8 N 22 17.1	1 04.9 N 22 04.0	47 51.0 N 8 35.7	11 38.1 N 19 48.8	80 59.8 S 6 08.4	53 47.2 N 8 00.1	59.6				
13	86 29.4	15 28.7 N 22 17.5	16 04.1 N 22 04.5	62 51.7 N 8 36.4	26 39.9 N 19 48.9	96 02.2 S 6 08.3	68 17.5 N 8 16.6	59.6	Alphecca	126	03.8	N 26 37.9
14	101 31.8	30 28.6 N 22 17.8	31 03.3 N 22 05.0	77 52.4 N 8 37.1	41 41.8 N 19 49.1	111 04.6 S 6 08.3	82 47.8 N 8 33.0	59.6	Alpheratz	357	35.5	N 29 13.3
15	116 34.3	45 28.5 N 22 18.1	46 02.5 N 22 05.5	92 53.1 N 8 37.8	56 43.6 N 19 49.2	126 06.9 S 6 08.3	97 18.0 N 8 49.4	59.6	Altair	62	00.2	N 8 55.8
16	131 36.8	60 28.4 N 22 18.4	61 01.7 N 22 06.0	107 53.8 N 8 38.5	71 45.5 N 19 49.3	141 09.3 S 6 08.2	111 48.1 N 9 05.7	59.6	Ankaa	353	07.9	S 42 10.3
17	146 39.2	75 28.2 N 22 18.7	76 00.9 N 22 06.5	122 54.5 N 8 39.2	86 47.4 N 19 49.4	156 11.6 S 6 08.2	126 18.2 N 9 22.0	59.6	Antares	112	16.1	S 26 29.2
18	161 41.7	90 28.1 N 22 19.0	91 00.1 N 22 07.0	137 55.2 N 8 39.9	101 49.2 N 19 49.5	171 14.0 S 6 08.2	140 48.2 N 9 38.2	59.6				
19	176 44.1	105 28.0 N 22 19.3	105 59.3 N 22 07.5	152 55.9 N 8 40.6	116 51.1 N 19 49.7	186 16.3 S 6 08.1	155 18.2 N 9 54.4	59.6	Arcturus	145	48.1	N 19 03.3
20	191 46.6	120 27.9 N 22 19.6	120 58.5 N 22 08.0	167 56.6 N 8 41.3	131 52.9 N 19 49.8	201 18.7 S 6 08.1	169 48.2 N 10 10.5	59.5	Atria	107	10.3	S 69 04.3
21	206 49.1	135 27.8 N 22 19.9	135 57.7 N 22 08.5	182 57.3 N 8 42.0	146 54.8 N 19 49.9	216 21.1 S 6 08.1	184 18.8 N 10 26.5	59.5	Avior	234	15.3	S 59 35.5
22	221 51.5	150 27.7 N 22 20.2	150 56.8 N 22 09.0	197 58.0 N 8 42.7	161 56.6 N 19 50.0	231 23.4 S 6 08.0	198 47.9 N 10 42.6	59.5	Bellatrix	278	23.8	N 6 22.3
23	236 54.0	165 27.6 N 22 20.5	165 56.0 N 22 09.5	212 58.7 N 8 43.3	176 58.5 N 19 50.1	246 25.8 S 6 08.0	213 17.6 N 10 58.5	59.5	Betelgeuse	270	53.0	N 7 24.7
03 00	251 56.5	180 27.5 N 22 20.8	180 55.2 N 22 10.0	227 59.4 N 8 44.0	192 00.4 N 19 50.2	261 28.1 S 6 08.0	227 47.4 N 11 14.4	59.5	Canopus	263	53.1	S 52 42.6
01	266 58.9	195 27.4 N 22 21.1	195 54.4 N 22 10.5	243 00.1 N 8 44.7	207 02.2 N 19 50.4	276 30.5 S 6 07.9	242 17.0 N 11 30.2	59.5	Capella	280	23.2	N 46 01.3
02	282 01.4	210 27.3 N 22 21.4	210 53.6 N 22 11.0	258 00.8 N 8 45.4	222 04.1 N 19 50.5	291 32.9 S 6 07.9	256 46.6 N 11 46.0	59.5	Castor	245	58.0	N 31 50.2
03	297 03.9	225 27.2 N 22 21.7	225 52.8 N 22 11.5	273 01.5 N 8 46.1	237 05.9 N 19 50.6	306 35.2 S 6 07.9	271 16.2 N 12 01.7	59.5	Deneb	49	25.9	N 45 21.7
04	312 06.3	240 27.1 N 22 22.0	240 52.0 N 22 12.0	288 02.2 N 8 46.8	252 07.8 N 19 50.7	321 37.6 S 6 07.8	285 45.6 N 12 17.3	59.5	Denebola	182	25.4	N 44 26.2
05	327 08.8	255 27.0 N 22 22.3	255 51.2 N 22 12.5	303 02.9 N 8 47.5	267 09.6 N 19 50.8	336 39.9 S 6 07.8	300 15.1 N 12 32.9	59.5				
06	342 11.3	270 26.9 N 22 22.6	270 50.3 N 22 13.0	318 03.7 N 8 48.2	282 11.5 N 19 51.0	351 42.3 S 6 07.8	314 44.4 N 12 48.4	59.5	Diphda	348	48.0	S 17 51.1
07	357 13.7	285 26.8 N 22 22.9	285 49.5 N 22 13.4	333 04.4 N 8 48.9	297 13.4 N 19 51.1	6 44.7 S 6 07.7	329 13.7 N 13 03.9	59.5	Dubhe	193	41.5	N 61 37.4
08	12 16.2	300 26.7 N 22 23.2	300 48.7 N 22 13.9	348 05.1 N 8 49.6	312 15.2 N 19 51.2	21 47.0 S 6 07.7	343 42.9 N 13 19.2	59.5	Elnath	278	02.9	N 28 37.7
09	27 18.6	315 26.6 N 22 23.5	315 47.9 N 22 14.4	3 05.8 N 8 50.3	327 17.1 N 19 51.3	36 49.4 S 6 07.7	358 12.1 N 13 34.5	59.5	Etamin	90	41.9	N 51 29.0
10	42 21.1	330 26.5 N 22 23.8	330 47.1 N 22 14.9	18 06.5 N 8 51.0	342 18.9 N 19 51.4	51 51.7 S 6 07.6	12 41.2 N 13 49.7	59.5	Enif	33	39.2	N 9 59.1
11	57 23.6	345 26.4 N 22 24.1	345 46.3 N 22 15.4	33 07.2 N 8 51.7	357 20.8 N 19 51.5	66 54.1 S 6 07.6	27 10.2 N 14 04.8	59.5				
12	72 26.0	0 26.2 N 22 24.4	0 45.4 N 22 15.9	48 07.9 N 8 52.4	12 22.6 N 19 51.7	81 56.5 S 6 07.6	41 39.2 N 14 19.9	59.5	Fomalhaut	15	15.1	S 29 29.5
13	87 28.5	15 26.1 N 22 24.7	15 44.6 N 22 16.4	63 08.6 N 8 53.0	27 24.5 N 19 51.8	96 58.8 S 6 07.5	56 08.0 N 14 34.8	59.5	Gacrux	171	52.0	S 57 15.2
14	102 31.0	30 26.0 N 22 25.0	30 43.8 N 22 16.8	78 09.3 N 8 53.7	42 26.4 N 19 51.9	112 01.2 S 6 07.5	70 36.9 N 14 49.7	59.5	Gienah	175	44.0	S 17 40.8
15	117 33.4	45 25.9 N 22 25.3	45 43.0 N 22 17.3	93 10.0 N 8 54.4	57 28.2 N 19 52.0	127 03.6 S 6 07.5	85 05.6 N 15 04.5	59.4	Hadar	148	36.2	S 60 29.6
16	132 35.9	60 25.8 N 22 25.6	60 42.2 N 22 17.8	108 10.7 N 8 55.1	72 30.1 N 19 52.1	142 05.9 S 6 07.4	99 34.3 N 15 19.3	59.4	Hamal	327	52.1	N 23 34.5
17	147 38.4	75 25.7 N 22 25.9	75 41.4 N 22 18.3	123 11.4 N 8 55.8	87 31.9 N 19 52.3	157 08.3 S 6 07.4	114 02.9 N 15 33.9	59.4				
18	162 40.8	90 25.6 N 22 26.2	90 40.5 N 22 18.7	138 12.1 N 8 56.5	102 33.8 N 19 52.4	172 10.6 S 6 07.4	128 31.4 N 15 48.4	59.4	Kaus aust.	83	32.8	S 34 22.3
19	177 43.3	105 25.5 N 22 26.5	105 39.7 N 22 19.2	153 12.8 N 8 57.2	117 35.6 N 19 52.5	187 13.0 S 6 07.3	142 59.9 N 16 02.9	59.4	Kochab	137	18.6	N 74 03.4
20	192 45.8	120 25.4 N 22 26.7	120 38.9 N 22 19.7	168 13.5 N 8 57.9	132 37.5 N 19 52.6	202 15.4 S 6 07.3	157 28.2 N 16 17.2	59.4	Markab	13	30.5	N 51 20.0
21	207 48.2	135 25.3 N 22 27.0	135 38.1 N 22 20.2	183 14.2 N 8 58.6	147 39.4 N 19 52.7	217 17.7 S 6 07.3	171 56.6 N 16 31.5	59.4	Menkar	314	07.0	N 4 11.1
22	222 50.7	150 25.2 N 22 27.3	150 37.3 N 22 20.6	198 14.9 N 8 59.3	162 41.2 N 19 52.8	232 20.1 S 6 07.3	186 24.8 N 16 45.6	59.4	Menkent	147	57.9	S 36 29.5
23	237 53.1	165 25.1 N 22 27.6	165 36.4 N 22 21.1	213 15.6 N 8 59.9	177 43.1 N 19 53.0	247 22.4 S 6 07.2	200 52.9 N 16 59.7	59.4				
04 00	252 55.6	180 25.0 N 22 27.9	180 35.6 N 22 21.6	228 16.3 N 9 00.6	192 44.9 N 19 53.1	262 24.8 S 6 07.2	215 21.0 N 17 13.6	59.4	Miaplacidus	221	38.8	S 69 49.3
01	267 58.1	195 24.8 N 22 28.2	195 34.8 N 22 22.0	243 17.0 N 9 01.3	207 46.8 N 19 53.2	277 27.2 S 6 07.2	229 49.0 N 17 27.5	59.4	Mirfak	308	29.5	N 49 56.7
02	283 00.5	210 24.7 N 22 28.5	210 34.0 N 22 22.5	258 17.7 N 9 02.0	222 48.6 N 19 53.3	292 29.5 S 6 07.1	244 16.9 N 17 41.3	59.3	Mizar	158	45.9	N 54 48.1
03	298 03.0	225 24.6 N 22 28.7	225 33.2 N 22 23.0	273 18.4 N 9 02.7	237 50.5 N 19 53.4	307 31.9 S 6 07.1	258 44.8 N 17 54.9	59.3	Nunki	75	48.1	S 26 16.0
04	313 05.5	240 24.5 N 22 29.0	240 32.3 N 22 23.4	288 19.1 N 9 03.4	252 52.4 N 19 53.5	322 34.3 S 6 07.1	273 12.6 N 18 08.5	59.3	Peacock	53	06.2	S 56 39.2
05	328 07.9	255 24.4 N 22 29.3	255 31.5 N 22 23.9	303 19.9 N 9 04.1	267 54.2 N 19 53.7	337 36.6 S 6 07.0	287 40.3 N 18 21.9	59.3	Polaris	314	46.1	N 89 21.9
06	343 10.4	270 24.3 N 22 29.6	270 30.7 N 22 24.4	318 20.6 N 9 04.8	282 56.1 N 19 53.8	352 39.0 S 6 07.0	302 07.2 N 18 35.2	59.3	Pollux	243	18.2	N 27 58.1
07	358 12.9	285 24.2 N 22 29.9	285 29.9 N 22 24.8	333 21.3 N 9 05.5	297 57.9 N 19 53.9	7 41.4 S 6 07.0	316 35.4 N 18 48.4	59.3	Procyon	244	51.6	N 5 09.8
08	13 15.3	300 24.1 N 22 30.2	300 29.0 N 22 25.3	348 22.0 N 9 06.1	312 59.8 N 19 54.0	22 43.7 S 6 06.9	331 02.9 N 19 01.5	59.3	Rasalhague	95	58.7	N 12 32.4
09	28 17.8	31										

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	MAGGIO	31
d h	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	NOME	360	- AR	Dec.
05 00	253 54.7	180 22.3	N 22 34.6	180 15.8	N 22 32.5	228 33.2	N 9 17.1	193 29.5	N 19 55.9	263 21.6	S 6 06.4	202 11.4	N 22 14.4	59.0				
01	268 57.2	195 22.2	N 22 34.8	195 15.0	N 22 33.0	243 33.9	N 9 17.8	208 31.4	N 19 56.0	278 23.9	S 6 06.4	216 37.6	N 22 25.3	59.0	Acamar	315 12.5	S 40 12.3	
02	283 59.7	210 22.1	N 22 35.1	210 14.1	N 22 33.4	258 34.6	N 9 18.5	223 33.2	N 19 56.1	293 26.3	S 6 06.4	231 03.6	N 22 36.1	59.0	Achernar	335 21.0	S 57 06.6	
03	299 02.1	225 22.0	N 22 35.4	225 13.3	N 22 33.8	273 35.3	N 9 19.2	238 35.1	N 19 56.2	308 28.7	S 6 06.4	245 29.6	N 22 46.7	59.0	AcruX	173 00.4	S 63 14.3	
04	314 04.6	240 21.8	N 22 35.6	240 12.5	N 22 34.3	288 36.0	N 9 19.9	253 36.9	N 19 56.3	323 31.0	S 6 06.3	259 55.5	N 22 57.2	59.0	Adhara	255 06.6	S 29 00.4	
05	329 07.1	255 21.7	N 22 35.9	255 11.7	N 22 34.7	303 36.7	N 9 20.6	268 38.8	N 19 56.5	338 33.4	S 6 06.3	274 21.3	N 23 07.5	58.9	Aldebaran	290 40.6	N 16 33.5	
06	344 09.5	270 21.6	N 22 36.2	270 10.8	N 22 35.2	318 37.4	N 9 21.2	283 40.7	N 19 56.6	353 35.8	S 6 06.3	288 47.1	N 23 17.7	58.9				
07	359 12.0	285 21.5	N 22 36.4	285 10.0	N 22 35.6	333 38.1	N 9 21.9	298 42.5	N 19 56.7	8 38.1	S 6 06.2	303 12.8	N 23 27.8	58.9	Alioth	166 13.1	N 55 49.9	
08	14 14.5	300 21.4	N 22 36.7	300 09.2	N 22 36.0	348 38.8	N 9 22.6	313 44.4	N 19 56.8	23 40.5	S 6 06.2	317 38.4	N 23 37.7	58.9	Alkaid	152 52.0	N 49 11.6	
09	29 16.9	315 21.3	N 22 37.0	315 08.3	N 22 36.5	3 39.6	N 9 23.3	328 46.2	N 19 56.9	38 42.9	S 6 06.2	332 03.9	N 23 47.4	58.9	Alnair	27 33.5	S 46 50.4	
10	44 19.4	330 21.2	N 22 37.2	330 07.5	N 22 36.9	18 40.3	N 9 24.0	343 48.1	N 19 57.0	53 45.2	S 6 06.1	346 29.4	N 23 57.0	58.9	Alnilam	275 38.6	S 1 11.2	
11	59 21.9	345 21.1	N 22 37.5	345 06.7	N 22 37.3	33 41.0	N 9 24.7	358 50.0	N 19 57.2	68 47.6	S 6 06.1	0 54.8	N 24 06.5	58.8	Alphard	217 48.4	S 8 45.9	
12	74 24.3	0 20.9	N 22 37.8	0 05.8	N 22 37.8	48 41.7	N 9 25.3	13 51.8	N 19 57.3	83 50.0	S 6 06.1	15 20.1	N 24 15.8	58.8				
13	89 26.8	15 20.8	N 22 38.0	15 05.0	N 22 38.2	63 42.4	N 9 26.0	28 53.7	N 19 57.4	98 52.3	S 6 06.1	29 45.4	N 24 24.9	58.8	Alphecca	126 03.8	N 26 37.9	
14	104 29.2	30 20.7	N 22 38.3	30 04.2	N 22 38.6	78 43.1	N 9 26.7	43 55.5	N 19 57.5	113 54.7	S 6 06.0	44 10.6	N 24 33.9	58.8	Alpheratz	357 35.5	N 29 13.3	
15	119 31.7	45 20.6	N 22 38.5	45 03.3	N 22 39.0	93 43.8	N 9 27.4	58 57.4	N 19 57.6	128 57.1	S 6 06.0	58 35.7	N 24 42.7	58.8	Altair	62 00.2	N 8 55.8	
16	134 34.2	60 20.5	N 22 38.8	60 02.5	N 22 39.5	108 44.5	N 9 28.1	73 59.2	N 19 57.7	143 59.5	S 6 06.0	73 00.8	N 24 51.3	58.7	Ankaa	353 07.9	S 42 10.3	
17	149 36.6	75 20.4	N 22 39.1	75 01.6	N 22 39.9	123 45.2	N 9 28.8	89 01.1	N 19 57.9	159 01.8	S 6 05.9	87 25.8	N 24 59.8	58.7	Antares	112 16.1	S 26 29.2	
18	164 39.1	90 20.3	N 22 39.3	90 00.8	N 22 40.3	138 45.9	N 9 29.4	104 03.0	N 19 58.0	174 04.2	S 6 05.9	101 50.8	N 25 08.2	58.7				
19	179 41.6	105 20.1	N 22 39.6	105 00.0	N 22 40.7	153 46.6	N 9 30.1	119 04.8	N 19 58.1	189 06.6	S 6 05.9	116 15.7	N 25 16.3	58.7	Arcturus	145 48.1	N 19 03.3	
20	194 44.0	120 20.0	N 22 39.8	119 59.1	N 22 41.2	168 47.3	N 9 30.8	134 06.7	N 19 58.2	204 08.9	S 6 05.8	130 40.5	N 25 24.3	58.6	Atria	107 10.2	S 69 04.3	
21	209 46.5	135 19.9	N 22 40.1	134 58.3	N 22 41.6	183 48.0	N 9 31.5	149 08.5	N 19 58.3	219 11.3	S 6 05.8	145 05.3	N 25 32.2	58.6	Avior	234 15.4	S 59 35.5	
22	224 49.0	150 19.8	N 22 40.3	149 57.5	N 22 42.0	198 48.7	N 9 32.2	164 10.4	N 19 58.4	234 13.7	S 6 05.8	159 30.0	N 25 39.8	58.6	Bellatrix	278 23.8	N 6 22.3	
23	239 51.4	165 19.7	N 22 40.6	164 56.6	N 22 42.4	213 49.4	N 9 32.8	179 12.3	N 19 58.5	249 16.0	S 6 05.8	173 54.7	N 25 47.3	58.6	Betelgeuse	270 53.0	N 7 24.7	
06 00	254 53.9	180 19.6	N 22 40.8	179 55.8	N 22 42.8	228 50.1	N 9 33.5	194 14.1	N 19 58.7	264 18.4	S 6 05.7	188 19.4	N 25 54.6	58.6	Canopus	263 53.1	S 52 42.6	
01	269 56.4	195 19.4	N 22 41.1	194 55.0	N 22 43.2	243 50.8	N 9 34.2	209 16.0	N 19 58.8	279 20.8	S 6 05.7	202 43.9	N 26 01.8	58.5	Capella	280 23.2	N 46 01.3	
02	284 58.8	210 19.3	N 22 41.4	209 54.1	N 22 43.7	258 51.5	N 9 34.9	224 17.8	N 19 58.9	294 23.2	S 6 05.7	217 08.5	N 26 08.8	58.5	Castor	245 58.0	N 31 50.2	
03	300 01.3	225 19.2	N 22 41.6	224 53.3	N 22 44.1	273 52.2	N 9 35.6	239 19.7	N 19 59.0	309 25.5	S 6 05.6	231 33.0	N 26 15.6	58.5	Deneb	49 25.9	N 45 21.8	
04	315 03.7	240 19.1	N 22 41.9	239 52.4	N 22 44.5	288 52.9	N 9 36.2	254 21.5	N 19 59.1	324 27.9	S 6 05.6	245 57.4	N 26 22.3	58.5	Denebola	182 25.4	N 14 26.2	
05	330 06.2	255 19.0	N 22 42.1	254 51.6	N 22 44.9	303 53.6	N 9 36.9	269 23.4	N 19 59.2	339 30.3	S 6 05.6	260 21.8	N 26 28.7	58.4				
06	345 08.7	270 18.9	N 22 42.4	269 50.8	N 22 45.3	318 54.3	N 9 37.6	284 25.3	N 19 59.4	354 32.6	S 6 05.6	274 46.2	N 26 35.0	58.4	Diphda	348 48.0	S 17 51.1	
07	0 11.1	285 18.7	N 22 42.6	284 49.9	N 22 45.7	333 55.0	N 9 38.3	299 27.1	N 19 59.5	9 35.0	S 6 05.5	289 10.5	N 26 41.2	58.4	Dubhe	193 41.6	N 61 37.4	
08	15 13.6	300 18.6	N 22 42.9	299 49.1	N 22 46.1	348 55.7	N 9 39.0	314 29.0	N 19 59.6	24 37.4	S 6 05.5	303 34.8	N 26 47.1	58.4	Elnath	278 02.9	N 28 37.7	
09	30 16.1	315 18.5	N 22 43.1	314 48.2	N 22 46.5	3 56.4	N 9 39.6	329 30.8	N 19 59.7	39 39.8	S 6 05.5	317 59.0	N 26 52.9	58.4	Etamin	90 41.9	N 51 29.0	
10	45 18.5	330 18.4	N 22 43.3	329 47.4	N 22 46.9	18 57.1	N 9 40.3	344 32.7	N 19 59.8	54 42.1	S 6 05.4	332 23.3	N 26 58.5	58.3	Enif	33 39.2	N 9 59.1	
11	60 21.0	345 18.3	N 22 43.6	344 46.6	N 22 47.3	33 57.8	N 9 41.0	359 34.6	N 19 59.9	69 44.5	S 6 05.4	346 47.4	N 27 03.9	58.3				
12	75 23.5	0 18.2	N 22 43.8	359 45.7	N 22 47.7	48 58.5	N 9 41.7	14 36.4	N 20 00.0	84 46.9	S 6 05.4	1 11.6	N 27 09.1	58.3	Fomalhaut	15 15.1	S 29 29.5	
13	90 25.9	15 18.0	N 22 44.1	14 44.9	N 22 48.1	63 59.2	N 9 42.4	29 38.3	N 20 00.2	99 49.2	S 6 05.4	15 35.7	N 27 14.2	58.3	Gacrux	171 52.0	S 57 15.2	
14	105 28.4	30 17.9	N 22 44.3	29 44.0	N 22 48.5	78 59.9	N 9 43.0	44 40.1	N 20 00.3	114 51.6	S 6 05.3	29 59.9	N 27 19.1	58.2	Gienah	175 44.0	S 17 40.8	
15	120 30.9	45 17.8	N 22 44.6	44 43.2	N 22 48.9	94 00.6	N 9 43.7	59 42.0	N 20 00.4	129 54.0	S 6 05.3	44 23.9	N 27 23.8	58.2	Hadar	148 36.2	S 60 29.6	
16	135 33.3	60 17.7	N 22 44.8	59 42.3	N 22 49.3	109 01.3	N 9 44.4	74 43.9	N 20 00.5	144 56.4	S 6 05.3	58 48.0	N 27 28.3	58.2	Hamal	327 52.1	N 23 34.5	
17	150 35.8	75 17.6	N 22 45.1	74 41.5	N 22 49.7	124 02.0	N 9 45.1	89 45.6	N 20 00.6	159 58.7	S 6 05.3	73 12.1	N 27 32.7	58.1				
18	165 38.2	90 17.5	N 22 45.3	89 40.7	N 22 50.1	139 02.7	N 9 45.7	104 47.7	N 20 00.7	175 01.1	S 6 05.2	87 36.1	N 27 36.8	58.1	Kaus aust.	83 32.8	S 34 22.3	
19	180 40.7	105 17.3	N 22 45.5	104 39.8	N 22 50.5	154 03.4	N 9 46.4	119 49.4	N 20 00.8	190 03.5	S 6 05.2	102 00.1	N 27 40.8	58.1	Kochab	137 18.7	N 74 03.4	
20	195 43.2	120 17.2	N 22 45.8	119 39.0	N 22 50.9	169 04.1	N 9 47.1	134 51.3	N 20 01.0	205 05.8	S 6 05.2	116 24.1	N 27 44.6	58.1	Markab	13 30.5	N 15 20.0	
21	210 45.6	135 17.1	N 22 46.0	134 38.1	N 22 51.3	184 04.9	N 9 47.8	149 53.1	N 20 01.1	220 08.2	S 6 05.1	130 48.1	N 27 48.2	58.0	Menkar	314 07.0	N 4 11.1	
22	225 48.1	150 17.0	N 22 46.3	149 37.3	N 22 51.7	199 05.6	N 9 48.5	164 55.0	N 20 01.2	235 10.6	S 6 05.1	145 12.1	N 27 51.7	58.0	Menkent	147 57.9	S 36 29.6	
23	240 50.6	165 16.9	N 22 46.5	164 36.4	N 22 52.1	214 06.3	N 9 49.1	179 56.9	N 20 01.3	250 13.0	S 6 05.1	159 36.1	N 27 55.0	58.0				
07 00	255 53.0	180 16.7	N 22 46.7	179 35.6	N 22 52.5	229 07.0	N 9 49.8	194 58.7	N 20 01.4	265 15.3	S 6 05.1	174 00.1	N 27 58.0	58.0	Miaplacidus	221 38.8	S 69 49.3	
01	270 55.5	195 16.6	N 22 47.0	194 34.7	N 22 52.9	244 07.7	N 9 50.5	210 00.6	N 20 01.5	280 17.7	S 6 05.0	188 24.1	N 28 00.9	57.9	Mirfak	30		

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	GIUGNO	01
d h	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "
08 00	256 52.2	180 13.9 N 22 52.2	179 15.2 N 23 01.5	229 23.8 N 10 06.0	195 43.4 N 20 04.1	266 12.4 S 6 04.4	159 41.4 N 28 17.9	57.3	NOME	360	- AR	Dec.
01	271 54.6	195 13.7 N 22 52.4	194 14.3 N 23 01.8	244 24.5 N 10 06.7	210 45.2 N 20 04.3	281 14.7 S 6 04.4	174 06.1 N 28 16.5	57.3	Acamar	315	12.5	S 40 12.3
02	286 57.1	210 13.6 N 22 52.6	209 13.5 N 23 02.2	259 25.2 N 10 07.3	225 47.1 N 20 04.4	296 17.1 S 6 04.4	188 30.9 N 28 14.9	57.2	Achernar	335	21.0	S 57 06.6
03	301 59.6	225 13.5 N 22 52.9	224 12.6 N 23 02.5	274 25.9 N 10 08.0	240 48.9 N 20 04.5	311 19.5 S 6 04.3	202 55.7 N 28 13.2	57.2	AcruX	173	00.4	S 63 14.3
04	317 02.0	240 13.4 N 22 53.1	239 11.8 N 23 02.9	289 26.6 N 10 08.7	255 50.8 N 20 04.6	326 21.9 S 6 04.3	217 20.6 N 28 11.3	57.2	Adhara	255	06.6	S 29 00.4
05	332 04.5	255 13.3 N 22 53.3	254 10.9 N 23 03.3	304 27.3 N 10 09.3	270 52.7 N 20 04.7	341 24.2 S 6 04.3	231 45.6 N 28 09.2	57.1	Aldebaran	290	40.6	N 16 33.5
06	347 07.0	270 13.1 N 22 53.5	269 10.1 N 23 03.6	319 28.0 N 10 10.0	285 54.5 N 20 04.8	356 26.6 S 6 04.3	246 10.6 N 28 07.0	57.1				
07	2 09.4	285 13.0 N 22 53.7	284 09.2 N 23 04.0	334 28.7 N 10 10.7	300 56.4 N 20 04.9	11 29.0 S 6 04.2	260 35.6 N 28 04.6	57.1	Alioth	166	13.1	N 55 49.9
08	17 11.9	300 12.9 N 22 53.9	299 08.4 N 23 04.3	349 29.4 N 10 11.3	315 58.2 N 20 05.1	26 31.4 S 6 04.2	275 00.8 N 28 02.0	57.1	Alkaid	152	52.0	N 49 11.6
09	32 14.4	315 12.8 N 22 54.2	314 07.5 N 23 04.7	4 30.1 N 10 12.0	331 00.1 N 20 05.2	41 33.8 S 6 04.2	289 26.0 N 27 59.3	57.0	Alnair	27	33.5	S 46 50.4
10	47 16.8	330 12.6 N 22 54.4	329 06.7 N 23 05.0	19 30.8 N 10 12.7	346 02.0 N 20 05.3	56 36.1 S 6 04.2	303 51.3 N 27 56.4	57.0	Alnilam	275	38.6	S 1 11.2
11	62 19.3	345 12.5 N 22 54.6	344 05.8 N 23 05.4	34 31.5 N 10 13.4	1 03.8 N 20 05.4	71 38.5 S 6 04.1	318 16.7 N 27 53.3	57.0	Alphard	217	48.4	S 8 45.9
12	77 21.7	0 12.4 N 22 54.8	359 04.9 N 23 05.7	49 32.2 N 10 14.0	16 05.7 N 20 05.5	86 40.9 S 6 04.1	332 42.1 N 27 50.1	56.9				
13	92 24.2	15 12.3 N 22 55.0	14 04.1 N 23 06.1	64 32.9 N 10 14.7	31 07.5 N 20 05.6	101 43.3 S 6 04.1	347 07.6 N 27 46.7	56.9	Alphecca	126	03.8	N 26 37.9
14	107 26.7	30 12.2 N 22 55.2	29 03.2 N 23 06.4	79 33.6 N 10 15.4	46 09.4 N 20 05.7	116 45.7 S 6 04.1	1 33.2 N 27 43.2	56.9	Alpheratz	357	35.5	N 29 13.3
15	122 29.1	45 12.0 N 22 55.4	44 02.4 N 23 06.8	94 34.3 N 10 16.0	61 11.3 N 20 05.8	131 48.0 S 6 04.0	15 58.9 N 27 39.5	56.9	Altair	62	00.2	N 8 55.8
16	137 31.6	60 11.9 N 22 55.6	59 01.5 N 23 07.1	109 35.0 N 10 16.7	76 13.1 N 20 06.0	146 50.4 S 6 04.0	30 24.7 N 27 35.6	56.8	Ankaa	353	07.8	S 42 10.3
17	152 34.1	75 11.8 N 22 55.8	74 00.7 N 23 07.4	124 35.7 N 10 17.4	91 15.0 N 20 06.1	161 52.8 S 6 04.0	44 50.5 N 27 31.6	56.8	Antares	112	16.1	S 26 29.2
18	167 36.5	90 11.7 N 22 56.1	88 59.8 N 23 07.8	139 36.4 N 10 18.0	106 16.8 N 20 06.2	176 55.2 S 6 04.0	59 16.4 N 27 27.4	56.8				
19	182 39.0	105 11.5 N 22 56.3	103 58.9 N 23 08.1	154 37.1 N 10 18.7	121 18.7 N 20 06.3	191 57.6 S 6 04.0	73 42.5 N 27 23.1	56.7	Arcturus	145	48.1	N 19 03.3
20	197 41.5	120 11.4 N 22 56.5	118 58.1 N 23 08.5	169 37.8 N 10 19.4	136 20.6 N 20 06.4	206 59.9 S 6 03.9	88 08.6 N 27 18.6	56.7	Atria	107	10.2	S 69 04.3
21	212 43.9	135 11.3 N 22 56.7	133 57.2 N 23 08.8	184 38.5 N 10 20.0	151 22.4 N 20 06.5	222 02.3 S 6 03.9	102 34.8 N 27 14.0	56.7	Avior	234	15.4	S 59 35.3
22	227 46.4	150 11.2 N 22 56.9	148 56.4 N 23 09.1	199 39.2 N 10 20.7	166 24.3 N 20 06.6	237 04.7 S 6 03.9	117 01.1 N 27 09.2	56.6	Bellatrix	278	23.8	N 6 22.3
23	242 48.8	165 11.0 N 22 57.1	163 55.5 N 23 09.5	214 39.9 N 10 21.4	181 26.1 N 20 06.7	252 07.1 S 6 03.9	131 27.4 N 27 04.3	56.6	Betelgeuse	270	53.0	N 7 24.7
09 00	257 51.3	180 10.9 N 22 57.3	178 54.6 N 23 09.8	229 40.6 N 10 22.0	196 28.0 N 20 06.8	267 09.5 S 6 03.8	145 53.9 N 26 59.2	56.6	Canopus	263	53.1	S 52 42.6
01	272 53.8	195 10.8 N 22 57.5	193 53.8 N 23 10.1	244 41.3 N 10 22.7	211 29.9 N 20 07.0	282 11.8 S 6 03.8	160 20.5 N 26 54.0	56.6	Capella	280	23.2	N 46 01.3
02	287 56.2	210 10.7 N 22 57.7	208 52.9 N 23 10.5	259 42.0 N 10 23.4	226 31.7 N 20 07.1	297 14.2 S 6 03.8	174 47.1 N 26 48.6	56.5	Castor	245	58.0	N 31 50.2
03	302 58.7	225 10.5 N 22 57.9	223 52.1 N 23 10.8	274 42.7 N 10 24.0	241 33.6 N 20 07.2	312 16.6 S 6 03.8	189 13.9 N 26 43.1	56.5	Deneb	49	25.9	N 45 21.8
04	318 01.2	240 10.4 N 22 58.1	238 51.2 N 23 11.1	289 43.4 N 10 24.7	256 35.4 N 20 07.3	327 19.0 S 6 03.7	203 40.7 N 26 37.5	56.5	Denebola	182	25.4	N 44 26.2
05	333 03.6	255 10.3 N 22 58.3	253 50.3 N 23 11.4	304 44.1 N 10 25.4	271 37.3 N 20 07.4	342 21.4 S 6 03.7	218 07.7 N 26 31.7	56.4				
06	348 06.1	270 10.2 N 22 58.5	268 49.5 N 23 11.8	319 44.8 N 10 26.0	286 39.2 N 20 07.5	357 23.8 S 6 03.7	232 34.8 N 26 25.7	56.4	Diphda	348	48.0	S 17 51.1
07	3 08.6	285 10.0 N 22 58.7	283 48.6 N 23 12.1	334 45.5 N 10 26.7	301 41.0 N 20 07.6	12 26.1 S 6 03.7	247 01.9 N 26 19.6	56.4	Dubhe	193	41.6	N 61 37.4
08	18 11.0	300 09.9 N 22 58.9	298 47.8 N 23 12.4	349 46.2 N 10 27.4	316 42.9 N 20 07.7	27 28.5 S 6 03.6	261 29.2 N 26 13.4	56.4	Elnath	278	02.9	N 28 37.7
09	33 13.5	315 09.8 N 22 59.1	313 46.9 N 23 12.7	4 46.9 N 10 28.0	331 44.8 N 20 07.9	42 30.9 S 6 03.6	275 56.5 N 26 07.1	56.3	Etamin	90	41.9	N 51 29.0
10	48 16.0	330 09.7 N 22 59.3	328 46.0 N 23 13.1	19 47.6 N 10 28.7	346 46.6 N 20 08.0	57 33.3 S 6 03.6	290 24.0 N 26 00.6	56.3	Enif	33	39.2	N 9 59.1
11	63 18.4	345 09.5 N 22 59.5	343 45.2 N 23 13.4	34 48.3 N 10 29.4	1 48.5 N 20 08.1	72 35.7 S 6 03.6	304 51.5 N 25 54.0	56.3				
12	78 20.9	0 09.4 N 22 59.7	358 44.3 N 23 13.7	49 49.0 N 10 30.0	16 50.2 N 20 08.2	87 38.1 S 6 03.5	319 19.2 N 25 47.2	56.2	Fomalhaut	15	15.1	S 29 29.5
13	93 23.3	15 09.3 N 22 59.9	13 43.4 N 23 14.0	64 49.7 N 10 30.7	31 52.2 N 20 08.3	102 40.4 S 6 03.5	333 47.0 N 25 40.3	56.2	Gacrux	171	52.0	S 57 15.2
14	108 25.8	30 09.2 N 23 00.1	28 42.6 N 23 14.3	79 50.4 N 10 31.4	46 54.1 N 20 08.4	117 42.8 S 6 03.5	348 14.8 N 25 33.3	56.2	Gienah	175	44.0	S 17 40.8
15	123 28.3	45 09.0 N 23 00.3	43 41.7 N 23 14.7	94 51.1 N 10 32.0	61 55.9 N 20 08.5	132 45.2 S 6 03.5	2 42.8 N 25 26.2	56.2	Hadar	148	36.3	S 60 29.6
16	138 30.7	60 08.9 N 23 00.4	58 40.9 N 23 15.0	109 51.8 N 10 32.7	76 57.8 N 20 08.6	147 47.6 S 6 03.5	17 10.9 N 25 18.9	56.1	Hamal	327	52.1	N 23 34.5
17	153 33.2	75 08.8 N 23 00.6	73 40.0 N 23 15.3	124 52.5 N 10 33.3	91 59.6 N 20 08.7	162 50.0 S 6 03.4	31 39.1 N 25 11.5	56.1				
18	168 35.7	90 08.7 N 23 00.8	88 39.1 N 23 15.6	139 53.2 N 10 34.0	107 01.5 N 20 08.9	177 52.4 S 6 03.4	46 07.4 N 25 04.0	56.1	Kaus aust.	83	32.8	S 34 22.3
19	183 38.1	105 08.5 N 23 01.0	103 38.3 N 23 15.9	154 53.9 N 10 34.7	122 03.4 N 20 09.0	192 54.7 S 6 03.4	60 35.8 N 24 56.4	56.1	Kochab	137	18.7	N 74 03.4
20	198 40.6	120 08.4 N 23 01.2	118 37.4 N 23 16.2	169 54.6 N 10 35.3	137 05.2 N 20 09.1	207 57.1 S 6 03.4	75 04.3 N 24 48.6	56.0	Markab	13	30.4	N 15 20.0
21	213 43.1	135 08.3 N 23 01.4	133 36.5 N 23 16.5	184 55.3 N 10 36.0	152 07.1 N 20 09.2	222 59.5 S 6 03.3	89 32.9 N 24 40.8	56.0	Menkar	314	07.0	N 4 11.1
22	228 45.5	150 08.2 N 23 01.6	148 35.7 N 23 16.8	199 56.0 N 10 36.7	167 09.9 N 20 09.3	238 01.9 S 6 03.3	104 01.7 N 24 32.8	56.0	Menkent	147	57.9	S 36 29.6
23	243 48.0	165 08.0 N 23 01.8	163 34.8 N 23 17.1	214 56.7 N 10 37.3	182 10.8 N 20 09.4	253 04.3 S 6 03.3	118 30.5 N 24 24.7	55.9				
10 00	258 50.5	180 07.9 N 23 02.0	178 33.9 N 23 17.5	229 57.4 N 10 38.0	197 12.7 N 20 09.5	268 06.7 S 6 03.3	132 59.4 N 24 16.4	55.9	Miaplacidus	221	38.8	S 69 49.3
01	273 52.9	195 07.8 N 23 02.1	193 33.1 N 23 17.8	244 58.1 N 10 38.6	212 14.5 N 20 09.6	283 09.0 S 6 03.3	147 28.5 N 24 08.1	55.9	Mirfak	308	29.5	N 49 56.7
02	288 55.4	210 07.7 N 23 02.3	208 32.2 N 23 18.1	259 58.8 N 10 39.3	227 16.4 N 20 09.7	298 11.4 S 6 03.2	161 57.6 N 23 59.6	55.9	Mizar	158	45.9	N 54 48.1
03	303 57.8	225 07.5 N 23 02.5	223 31.3 N 23 18.4	274 59.5 N 10 40.0	242 18.3 N 20 09.9	313 13.8 S 6 03.2	176 26.9 N 23 51.1	55.8	Nunki	75	48.1	S 26 16.0
04	319 00.3	240 07.4 N 23 02.7	238 30.5 N 23 18.7	290 00.2 N 10 40.6	257 20.1 N 20 10.0	328 16.2 S 6 03.2	190 56.3 N 23 42.4	55.8	Peacock	53	06.2	S 56 39.2
05	334 02.8	255 07.3 N 23 02.9	253 29.6 N 23 19.0	305 00.9 N 10 41.3	272 22.0 N 20 10.1	343 18.6 S 6 03.2	205 25.8 N 23 33.6	55.8	Polaris	314	45.2	N 89 21.8
06	349 05.2	270 07.2 N 23 03.1	268 28.7 N 23 19.3	320 01.6 N 10 42.0	287 23.8 N 20 10.2	358 21.0 S 6 03.1	219 55.3 N 23 24.7	55.8	Pollux	243	18.2	N 27 58.1
07	4 07.7	285 07.0 N 23 03.2	283 27.9 N 23 19.6	335 02.3 N 10 42.6	302 25.7 N 20 10.3	13 23.4 S 6 03.1	234 25.0 N 23 15.8	55.7	Procyon	244	51.6	N 5 09.8
08	19 10.2	300 06.9 N 23 03.4	298 27.7 N 23 19.9	350 03.0 N 10 43.3	317 27.6 N 20 10.4	28 25.7 S 6 03.1	248 54.8 N 23 06.7	55.7	Rasalhague			

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	GIUGNO	04
d h	'	'	'	'	'	'	'	'	'	'	'	'
11 00	259 49.6	180 04.9 N 23 06.2	178 13.1 N 23 24.4	230 14.2 N 10 53.8	197 57.4 N 20 12.2	269 03.9 S 6 02.8	121 06.0 N 20 28.1	55.3	NOME	360 - AR	Dec.	
01	274 52.1	195 04.7 N 23 06.4	193 12.2 N 23 24.7	245 14.9 N 10 54.5	212 59.2 N 20 12.3	284 06.3 S 6 02.7	135 37.6 N 20 17.4	55.3	Acamar	315 12.5	S 40 12.3	
02	289 54.5	210 04.6 N 23 06.6	208 11.3 N 23 25.0	260 15.6 N 10 55.1	228 01.1 N 20 12.4	299 08.7 S 6 02.7	150 09.2 N 20 06.7	55.3	Achernar	335 20.9	S 57 06.6	
03	304 57.0	225 04.5 N 23 06.7	223 10.5 N 23 25.3	275 16.3 N 10 55.8	243 03.0 N 20 12.5	314 11.1 S 6 02.7	164 41.0 N 19 55.8	55.2	Acruar	173 00.4	S 63 14.3	
04	319 59.5	240 04.3 N 23 06.9	238 09.6 N 23 25.5	290 17.0 N 10 56.4	258 04.8 N 20 12.6	329 13.5 S 6 02.7	179 12.9 N 19 44.9	55.2	Adhara	255 06.6	S 29 00.4	
05	335 01.9	255 04.2 N 23 07.1	253 08.7 N 23 25.8	305 17.7 N 10 57.1	273 06.7 N 20 12.7	344 15.9 S 6 02.7	193 44.8 N 19 34.0	55.2	Aldebaran	290 40.6	N 16 33.5	
06	350 04.4	270 04.1 N 23 07.2	268 07.8 N 23 26.1	320 18.4 N 10 57.7	288 08.5 N 20 12.8	359 18.3 S 6 02.6	208 16.9 N 19 22.9	55.2				
07	5 06.8	285 04.0 N 23 07.4	283 07.0 N 23 26.3	335 19.1 N 10 58.4	303 10.4 N 20 12.9	14 20.7 S 6 02.6	222 49.0 N 19 11.8	55.2	Alioth	166 13.1	N 55 49.9	
08	20 09.3	300 03.8 N 23 07.6	298 06.1 N 23 26.6	350 19.8 N 10 59.1	318 12.3 N 20 13.1	29 23.1 S 6 02.6	237 21.3 N 19 00.6	55.1	Alkaid	152 52.1	N 49 11.7	
09	35 11.8	315 03.7 N 23 07.7	313 05.2 N 23 26.9	5 20.5 N 10 59.7	333 14.1 N 20 13.2	44 25.4 S 6 02.6	251 53.6 N 18 49.3	55.1	Alnair	27 33.4	S 46 50.4	
10	50 14.2	330 03.6 N 23 07.9	328 04.4 N 23 27.1	20 21.2 N 11 00.4	348 16.0 N 20 13.3	59 27.8 S 6 02.6	266 26.0 N 18 38.0	55.1	Alnilam	275 38.6	S 1 11.2	
11	65 16.7	345 03.4 N 23 08.0	343 03.5 N 23 27.4	35 21.9 N 11 01.0	3 17.9 N 20 13.4	74 30.2 S 6 02.5	280 58.6 N 18 26.5	55.1	Alphard	217 48.4	S 8 45.9	
12	80 19.2	0 03.3 N 23 08.2	358 02.6 N 23 27.7	50 22.6 N 11 01.7	18 19.7 N 20 13.5	89 32.6 S 6 02.5	295 31.2 N 18 15.1	55.0				
13	95 21.6	15 03.2 N 23 08.4	13 01.7 N 23 27.9	65 23.3 N 11 02.3	33 21.6 N 20 13.6	104 35.0 S 6 02.5	310 03.9 N 18 03.5	55.0	Alphecca	126 03.8	N 26 38.0	
14	110 24.1	30 03.1 N 23 08.5	28 00.9 N 23 28.2	80 24.0 N 11 03.0	48 23.4 N 20 13.7	119 37.4 S 6 02.5	324 36.7 N 17 51.9	55.0	Alpheratz	357 35.4	N 29 13.3	
15	125 26.6	45 02.9 N 23 08.7	43 00.0 N 23 28.4	95 24.7 N 11 03.6	63 25.3 N 20 13.8	134 39.8 S 6 02.5	339 09.6 N 17 40.2	55.0	Altair	62 00.2	N 8 55.9	
16	140 29.0	60 02.8 N 23 08.8	57 59.1 N 23 28.7	110 25.4 N 11 04.3	78 27.2 N 20 13.9	149 42.2 S 6 02.4	353 42.5 N 17 28.5	55.0	Ankaa	353 07.8	S 42 10.3	
17	155 31.5	75 02.7 N 23 09.0	72 58.2 N 23 29.0	125 26.1 N 11 04.9	93 29.0 N 20 14.0	164 44.6 S 6 02.4	8 15.6 N 17 16.7	55.0	Antares	112 16.1	S 26 29.2	
18	170 33.9	90 02.5 N 23 09.2	87 57.4 N 23 29.2	140 26.8 N 11 05.6	108 30.9 N 20 14.1	179 47.0 S 6 02.4	22 48.7 N 17 04.8	54.9				
19	185 36.4	105 02.4 N 23 09.3	102 56.5 N 23 29.5	155 27.5 N 11 06.3	123 32.8 N 20 14.3	194 49.4 S 6 02.4	37 22.0 N 16 52.9	54.9	Arcturus	145 48.1	N 19 03.4	
20	200 38.9	120 02.3 N 23 09.5	117 55.6 N 23 29.7	170 28.2 N 11 06.9	138 34.6 N 20 14.4	209 51.7 S 6 02.4	51 55.3 N 16 40.9	54.9	Atria	107 10.2	S 69 04.3	
21	215 41.3	135 02.1 N 23 09.6	132 54.7 N 23 30.0	185 28.9 N 11 07.6	153 36.5 N 20 14.5	224 54.1 S 6 02.3	66 27.8 N 16 28.8	54.9	Avior	234 15.4	S 59 35.4	
22	230 43.8	150 02.0 N 23 09.8	147 53.9 N 23 30.2	200 29.6 N 11 08.2	168 38.3 N 20 14.6	239 56.5 S 6 02.3	81 02.1 N 16 16.7	54.9	Bellatrix	278 23.8	N 6 22.3	
23	245 46.3	165 01.9 N 23 09.9	162 53.0 N 23 30.5	215 30.3 N 11 08.9	183 40.2 N 20 14.7	254 58.9 S 6 02.3	95 35.7 N 16 04.5	54.8	Betelgeuse	270 53.0	N 7 24.7	
12 00	260 48.7	180 01.8 N 23 10.1	177 52.1 N 23 30.7	230 31.0 N 11 09.5	198 42.1 N 20 14.8	270 01.3 S 6 02.3	110 09.3 N 15 52.3	54.8	Canopus	263 53.2	S 52 42.6	
01	275 51.2	195 01.6 N 23 10.2	192 51.2 N 23 31.0	245 31.7 N 11 10.2	213 43.9 N 20 14.9	285 03.7 S 6 02.3	124 43.0 N 15 40.0	54.8	Capella	280 23.1	N 46 01.3	
02	290 53.7	210 01.5 N 23 10.4	207 50.3 N 23 31.2	260 32.4 N 11 10.8	228 45.8 N 20 15.0	300 06.1 S 6 02.2	139 16.8 N 15 27.7	54.8	Castor	245 58.0	N 31 50.2	
03	305 56.1	225 01.4 N 23 10.5	222 49.5 N 23 31.5	275 33.1 N 11 11.5	243 47.7 N 20 15.1	315 08.5 S 6 02.2	153 50.7 N 15 15.3	54.8	Deneb	49 25.9	N 45 21.8	
04	320 58.6	240 01.2 N 23 10.7	237 48.6 N 23 31.7	290 33.8 N 11 12.1	258 49.5 N 20 15.2	330 10.9 S 6 02.2	168 24.6 N 15 02.9	54.8	Denebola	182 25.4	N 44 26.2	
05	335 01.1	255 01.1 N 23 10.8	252 47.7 N 23 32.0	305 34.5 N 11 12.8	273 51.4 N 20 15.3	345 13.3 S 6 02.2	182 58.7 N 14 50.4	54.7				
06	351 03.5	270 01.0 N 23 11.0	267 46.8 N 23 32.2	320 35.2 N 11 13.4	288 53.3 N 20 15.4	0 15.7 S 6 02.2	197 32.7 N 14 37.8	54.7	Diphda	348 48.0	S 17 51.1	
07	6 06.0	285 00.8 N 23 11.1	282 46.0 N 23 32.4	335 35.9 N 11 14.1	303 55.1 N 20 15.6	15 18.1 S 6 02.1	212 06.9 N 14 25.3	54.7	Dubhe	193 41.6	N 61 37.5	
08	21 08.4	300 00.7 N 23 11.3	297 45.1 N 23 32.7	350 36.6 N 11 14.7	318 57.0 N 20 15.7	30 20.5 S 6 02.1	226 41.1 N 14 12.6	54.7	Elnath	278 02.9	N 28 37.7	
09	36 10.9	315 00.6 N 23 11.4	312 44.2 N 23 32.9	5 37.3 N 11 15.4	333 58.8 N 20 15.8	45 22.8 S 6 02.1	241 15.4 N 13 59.9	54.7	Etamin	90 41.9	N 51 29.0	
10	51 13.4	330 00.5 N 23 11.6	327 43.3 N 23 33.2	20 38.0 N 11 16.0	349 00.7 N 20 15.9	60 25.2 S 6 02.1	255 49.8 N 13 47.2	54.7	Enif	33 39.2	N 9 59.1	
11	66 15.8	345 00.3 N 23 11.7	342 42.4 N 23 33.4	35 38.7 N 11 16.7	4 02.6 N 20 16.0	75 27.6 S 6 02.1	270 24.3 N 13 34.4	54.6				
12	81 18.3	0 00.2 N 23 11.9	357 41.6 N 23 33.6	50 39.4 N 11 17.3	19 04.4 N 20 16.1	90 30.0 S 6 02.1	284 58.8 N 13 21.6	54.6	Fomalhaut	15 15.1	S 29 29.5	
13	96 20.8	15 00.1 N 23 12.0	12 40.7 N 23 33.9	65 40.1 N 11 18.0	34 06.3 N 20 16.2	105 32.4 S 6 02.0	299 33.3 N 13 08.8	54.6	Gacrux	171 52.0	S 57 15.3	
14	111 23.2	29 59.9 N 23 12.1	27 39.8 N 23 34.1	80 40.8 N 11 18.6	49 08.2 N 20 16.3	120 34.8 S 6 02.0	314 08.0 N 12 55.8	54.6	Gienah	175 44.0	S 17 40.8	
15	126 25.7	44 59.8 N 23 12.3	42 38.9 N 23 34.3	95 41.5 N 11 19.3	64 10.0 N 20 16.4	135 37.2 S 6 02.0	328 42.7 N 12 42.9	54.6	Hadar	148 36.3	S 60 29.6	
16	141 28.2	59 59.7 N 23 12.4	57 38.0 N 23 34.5	110 42.2 N 11 19.9	79 11.9 N 20 16.5	150 39.6 S 6 02.0	343 17.5 N 12 29.9	54.6	Hamal	327 52.1	N 23 34.5	
17	156 30.6	74 59.5 N 23 12.6	72 37.2 N 23 34.8	125 42.9 N 11 20.6	94 13.8 N 20 16.6	165 42.0 S 6 02.0	357 52.3 N 12 16.9	54.6				
18	171 33.1	89 59.4 N 23 12.7	87 36.3 N 23 35.0	140 43.6 N 11 21.2	109 15.6 N 20 16.7	180 44.4 S 6 01.9	12 27.2 N 12 03.8	54.5	Kaus aust.	83 32.8	S 34 22.3	
19	186 35.6	104 59.3 N 23 12.8	102 35.4 N 23 35.2	155 44.3 N 11 21.9	124 17.5 N 20 16.9	195 46.8 S 6 01.9	27 02.1 N 11 50.7	54.5	Kochab	137 18.7	N 74 03.4	
20	201 38.0	119 59.1 N 23 13.0	117 34.5 N 23 35.5	170 45.0 N 11 22.5	139 19.4 N 20 17.0	210 49.2 S 6 01.9	41 37.1 N 11 37.6	54.5	Markab	13 30.4	N 15 20.0	
21	216 40.5	134 59.0 N 23 13.1	132 33.6 N 23 35.7	185 45.7 N 11 23.2	154 21.2 N 20 17.1	225 51.6 S 6 01.9	56 12.2 N 11 24.4	54.5	Menkar	314 07.0	N 4 11.1	
22	231 42.9	149 58.9 N 23 13.3	147 32.8 N 23 35.9	200 46.4 N 11 23.8	169 23.1 N 20 17.2	240 54.0 S 6 01.9	70 47.3 N 11 11.2	54.5	Menkent	147 57.9	S 36 29.6	
23	246 45.4	164 58.8 N 23 13.4	162 31.9 N 23 36.1	215 47.1 N 11 24.4	184 24.9 N 20 17.3	255 56.4 S 6 01.9	85 22.5 N 10 57.9	54.5				
13 00	261 47.9	179 58.6 N 23 13.5	177 31.0 N 23 36.3	230 47.8 N 11 25.1	199 26.8 N 20 17.4	270 58.8 S 6 01.8	99 57.7 N 10 44.6	54.5	Miaplacidus	221 38.9	S 69 49.3	
01	276 50.3	194 58.5 N 23 13.7	192 30.1 N 23 36.6	245 48.5 N 11 25.7	214 28.7 N 20 17.5	286 01.2 S 6 01.8	114 33.0 N 10 31.3	54.5	Mirfak	308 29.5	N 49 56.7	
02	291 52.8	209 58.4 N 23 13.8	207 29.2 N 23 36.8	260 49.2 N 11 26.4	229 30.5 N 20 17.6	301 03.6 S 6 01.8	129 08.3 N 10 17.9	54.5	Mizar	158 45.9	N 54 48.1	
03	306 55.3	224 58.2 N 23 13.9	222 28.4 N 23 37.0	275 49.9 N 11 27.0	244 34.2 N 20 17.7	316 06.0 S 6 01.8	143 43.7 N 10 04.6	54.4	Nunki	75 48.1	S 26 16.0	
04	321 57.7	239 58.1 N 23 14.1	237 27.5 N 23 37.2	290 50.6 N 11 27.7	259 34.3 N 20 17.8	331 08.4 S 6 01.8	158 19.1 N 9 51.1	54.4	Peacock	53 06.1	S 56 39.2	
05	337 00.2	254 58.0 N 23 14.2	252 26.6 N 23 37.4	305 51.2 N 11 28.3	274 36.1 N 20 17.9	346 10.8 S 6 01.7	172 54.6 N 9 37.7	54.4	Polaris	314 44.4	N 89 21.8	
06	352 02.7	269 57.8 N 23 14.3	267 25.7 N 23 37.6	320 51.9 N 11 29.0	289 38.0 N 20 18.0	1 13.2 S 6 01.7	187 30.1 N 9 24.2	54.4	Pollux	243 18.2	N 27 58.1	
07	7 05.1	284 57.7 N 23 14.5	282 24.8 N 23 37.8	335 52.6 N 11 29.6	304 39.9 N 20 18.1	16 15.5 S 6 01.7	202 05.7 N 9 10.7	54.4	Procyon	244 51.6	N 5 09.8	
08	22 07.6	299 57.6 N 23 14.6	297 23.9 N 23 38.1	350 53.3 N 11 30.3	319 41.7 N 20 18.2	31 17.9 S 6 01.7	216 41.3 N 8 57.2	54.4	Rasalhague	95 58.7	N 12	

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	GIUGNO	07
d h	'	'	'	'	'	'	'	'	'	'	'	'
14 00	262 47.0	179 55.5 N 23 16.6	177 09.8 N 23 41.3	231 04.5 N 11 40.6	200 11.6 N 20 20.0	271 56.3 S 6 01.4	90 16.0 N 5 17.4	54.3	NOME	360	- AR	Dec.
01	272 49.5	194 55.3 N 23 16.7	192 08.9 N 23 41.4	246 05.2 N 11 41.2	215 13.4 N 20 20.1	286 58.7 S 6 01.4	104 52.2 N 5 03.5	54.3	Acamar	315	12.5	S 40 12.3
02	292 51.9	209 55.2 N 23 16.8	207 08.0 N 23 41.6	261 05.9 N 11 41.8	230 15.3 N 20 20.2	302 01.1 S 6 01.4	119 28.4 N 4 49.5	54.3	Achernar	335	20.9	S 57 06.5
03	307 54.4	224 55.1 N 23 16.9	222 07.1 N 23 41.8	276 06.6 N 11 42.5	245 17.2 N 20 20.3	317 03.5 S 6 01.4	134 04.6 N 4 35.6	54.3	Acruir	173	00.5	S 63 14.3
04	322 56.9	239 54.9 N 23 17.0	237 06.3 N 23 42.0	291 07.3 N 11 43.1	260 19.0 N 20 20.4	332 05.9 S 6 01.4	148 40.8 N 4 21.7	54.3	Adhara	255	06.6	S 29 00.4
05	337 59.3	254 54.8 N 23 17.1	252 05.4 N 23 42.2	306 08.0 N 11 43.8	275 20.9 N 20 20.5	347 08.3 S 6 01.4	163 17.1 N 4 07.7	54.3	Aldebaran	290	40.6	N 16 33.5
06	353 01.8	269 54.7 N 23 17.3	267 04.5 N 23 42.4	321 08.7 N 11 44.4	290 22.8 N 20 20.6	2 10.7 S 6 01.3	177 53.4 N 3 53.7	54.3				
07	8 04.3	284 54.5 N 23 17.4	282 03.6 N 23 42.6	336 09.4 N 11 45.0	305 24.6 N 20 20.7	17 13.1 S 6 01.3	192 29.7 N 3 39.7	54.3	Alioth	166	13.1	N 55 49.9
08	23 06.7	299 54.4 N 23 17.5	297 02.7 N 23 42.7	351 10.1 N 11 45.7	320 26.5 N 20 20.8	32 15.5 S 6 01.3	207 06.0 N 3 25.7	54.3	Alkaid	152	52.1	N 49 11.7
09	38 09.2	314 54.3 N 23 17.6	312 01.8 N 23 42.9	6 10.8 N 11 46.3	335 28.4 N 20 20.9	47 17.9 S 6 01.3	221 42.3 N 3 11.7	54.3	Alnair	27	33.4	S 46 50.4
10	53 11.7	329 54.1 N 23 17.7	327 00.9 N 23 43.1	21 11.5 N 11 47.0	350 30.2 N 20 21.0	62 20.3 S 6 01.3	236 18.6 N 2 57.7	54.3	Alnilam	275	38.6	S 1 11.2
11	68 14.1	344 54.0 N 23 17.8	342 00.0 N 23 43.3	36 12.2 N 11 47.6	5 32.1 N 20 21.1	77 22.7 S 6 01.3	250 55.0 N 2 43.7	54.3	Alphard	217	48.4	S 8 45.9
12	83 16.6	359 53.9 N 23 17.9	356 59.2 N 23 43.5	51 12.9 N 11 48.2	20 34.0 N 20 21.2	92 25.1 S 6 01.2	265 31.3 N 2 29.6	54.3				
13	98 19.0	14 53.7 N 23 18.0	11 58.3 N 23 43.6	66 13.6 N 11 48.9	35 35.8 N 20 21.3	107 27.5 S 6 01.2	280 07.7 N 2 15.6	54.3	Alphecca	126	03.8	N 26 38.0
14	113 21.5	29 53.6 N 23 18.1	26 57.4 N 23 43.8	81 14.3 N 11 49.5	50 37.7 N 20 21.4	122 29.9 S 6 01.2	294 44.1 N 2 01.5	54.3	Alpheratz	357	35.4	N 29 13.3
15	128 24.0	44 53.5 N 23 18.3	41 56.5 N 23 44.0	96 14.9 N 11 50.1	65 39.6 N 20 21.5	137 32.3 S 6 01.2	309 20.5 N 1 47.4	54.3	Altair	62	00.2	N 8 55.9
16	143 26.4	59 53.3 N 23 18.4	56 55.6 N 23 44.1	111 15.6 N 11 50.8	80 41.4 N 20 21.7	152 34.7 S 6 01.2	323 56.8 N 1 33.4	54.3	Ankaa	353	07.8	S 42 10.2
17	158 28.9	74 53.2 N 23 18.5	71 54.7 N 23 44.3	126 16.3 N 11 51.4	95 43.3 N 20 21.8	167 37.1 S 6 01.2	338 33.2 N 1 19.3	54.3	Antares	112	16.1	S 26 29.2
18	173 31.4	89 53.1 N 23 18.6	86 53.8 N 23 44.5	141 17.0 N 11 52.1	110 45.2 N 20 21.9	182 39.5 S 6 01.2	353 09.6 N 1 05.2	54.3				
19	188 33.8	104 52.9 N 23 18.7	101 52.9 N 23 44.7	156 17.7 N 11 52.7	125 47.0 N 20 22.0	197 41.9 S 6 01.1	7 46.0 N 0 51.1	54.3	Arcturus	145	48.1	N 19 03.4
20	203 36.3	119 52.8 N 23 18.8	116 52.1 N 23 44.8	171 18.4 N 11 53.3	140 48.9 N 20 22.1	212 44.3 S 6 01.1	22 22.4 N 0 37.0	54.3	Atria	107	10.2	S 69 04.3
21	218 38.8	134 52.7 N 23 18.9	131 51.2 N 23 45.0	186 19.1 N 11 54.0	155 50.8 N 20 22.2	227 46.8 S 6 01.1	36 58.8 N 0 22.9	54.3	Avior	234	15.4	S 59 35.4
22	233 41.2	149 52.5 N 23 19.0	146 50.3 N 23 45.2	201 19.8 N 11 54.6	170 52.6 N 20 22.3	242 49.2 S 6 01.1	51 35.2 N 0 08.8	54.3	Bellatrix	278	23.8	N 6 22.3
23	248 43.7	164 52.4 N 23 19.1	161 49.4 N 23 45.3	216 20.5 N 11 55.2	185 54.5 N 20 22.4	257 51.6 S 6 01.1	66 11.6 S 0 05.3	54.3	Betelgeuse	270	53.0	N 7 24.7
15 00	263 46.1	179 52.3 N 23 19.2	176 48.5 N 23 45.5	231 21.2 N 11 55.9	200 56.4 N 20 22.5	272 54.0 S 6 01.1	80 48.0 S 0 19.4	54.3	Canopus	263	53.2	S 52 42.6
01	278 48.6	194 52.1 N 23 19.3	191 47.6 N 23 45.6	246 21.9 N 11 56.5	215 58.2 N 20 22.6	287 56.4 S 6 01.1	95 24.4 S 0 33.5	54.3	Capella	280	23.1	N 46 01.3
02	293 51.1	209 52.0 N 23 19.4	206 46.7 N 23 45.8	261 22.6 N 11 57.2	231 00.1 N 20 22.7	302 58.8 S 6 01.0	110 00.8 S 0 47.6	54.3	Castor	245	58.0	N 31 50.2
03	308 53.5	224 51.8 N 23 19.5	221 45.8 N 23 46.0	276 23.3 N 11 57.8	246 02.0 N 20 22.8	318 01.2 S 6 01.0	124 37.2 S 1 01.7	54.3	Deneb	49	25.9	N 45 21.8
04	323 56.0	239 51.7 N 23 19.6	236 44.9 N 23 46.1	291 24.0 N 11 58.4	261 03.8 N 20 22.9	333 03.6 S 6 01.0	139 13.5 S 1 15.8	54.3	Denebola	182	25.4	N 44 26.2
05	338 58.5	254 51.6 N 23 19.7	251 44.1 N 23 46.3	306 24.7 N 11 59.1	276 05.7 N 20 23.0	348 06.0 S 6 01.0	153 49.9 S 1 29.9	54.3				
06	354 00.9	269 51.4 N 23 19.8	266 43.2 N 23 46.4	321 25.4 N 11 59.7	291 07.6 N 20 23.1	3 08.4 S 6 01.0	168 26.2 S 1 44.0	54.3	Diphda	348	47.9	S 17 51.1
07	9 03.4	284 51.3 N 23 19.9	281 42.3 N 23 46.6	336 26.1 N 12 00.3	306 09.4 N 20 23.2	18 10.8 S 6 01.0	183 02.6 S 1 58.0	54.3	Dubhe	193	41.6	N 61 37.4
08	24 05.9	299 51.2 N 23 20.0	296 41.4 N 23 46.7	351 26.8 N 12 01.0	321 11.3 N 20 23.3	33 13.2 S 6 01.0	197 38.9 S 2 12.1	54.3	Elnath	278	02.9	N 28 37.7
09	39 08.3	314 51.0 N 23 20.1	311 40.5 N 23 46.9	6 27.5 N 12 01.6	336 13.2 N 20 23.4	48 15.6 S 6 00.9	212 15.2 S 2 26.2	54.3	Etamin	90	41.9	N 51 29.0
10	54 10.8	329 50.9 N 23 20.2	326 39.6 N 23 47.0	21 28.2 N 12 02.2	351 15.0 N 20 23.5	63 18.0 S 6 00.9	226 51.5 S 2 40.3	54.3	Enif	33	39.2	N 9 59.1
11	69 13.3	344 50.8 N 23 20.3	341 38.7 N 23 47.2	36 28.9 N 12 02.9	6 16.9 N 20 23.6	78 20.4 S 6 00.9	241 27.8 S 2 54.4	54.3				
12	84 15.7	359 50.6 N 23 20.4	356 37.8 N 23 47.3	51 29.6 N 12 03.5	21 18.8 N 20 23.8	93 22.8 S 6 00.9	256 04.0 S 3 08.4	54.3	Fomalhaut	15	15.0	S 29 29.5
13	99 18.2	14 50.5 N 23 20.4	11 36.9 N 23 47.5	66 30.3 N 12 04.1	36 20.6 N 20 23.9	108 25.2 S 6 00.9	270 40.3 S 3 22.5	54.3	Gacrux	171	52.0	S 57 15.3
14	114 20.6	29 50.4 N 23 20.5	26 36.0 N 23 47.6	81 31.0 N 12 04.8	51 22.5 N 20 24.0	123 27.6 S 6 00.9	285 16.5 S 3 36.6	54.4	Gienah	175	44.0	S 17 40.8
15	129 23.1	44 50.2 N 23 20.6	41 35.2 N 23 47.8	96 31.7 N 12 05.4	66 24.4 N 20 24.1	138 30.0 S 6 00.9	299 52.7 S 3 50.6	54.4	Hadar	148	36.3	S 60 29.6
16	144 25.6	59 50.1 N 23 20.7	56 34.3 N 23 47.9	111 32.3 N 12 06.0	81 26.2 N 20 24.2	153 32.4 S 6 00.9	314 28.8 S 4 04.6	54.4	Hamal	327	52.0	N 23 34.5
17	159 28.0	74 50.0 N 23 20.8	71 33.4 N 23 48.0	126 33.0 N 12 06.7	96 28.1 N 20 24.3	168 34.8 S 6 00.8	329 05.0 S 4 18.7	54.4				
18	174 30.5	89 49.8 N 23 20.9	86 32.5 N 23 48.2	141 33.7 N 12 07.3	111 30.0 N 20 24.4	183 37.2 S 6 00.8	343 41.1 S 4 32.7	54.4	Kaus aust.	83	32.8	S 34 22.3
19	189 33.0	104 49.7 N 23 21.0	101 31.6 N 23 48.3	156 34.4 N 12 07.9	126 31.8 N 20 24.5	198 39.7 S 6 00.8	358 17.2 S 4 46.7	54.4	Kochab	137	18.7	N 74 03.4
20	204 35.4	119 49.6 N 23 21.1	116 30.7 N 23 48.5	171 35.1 N 12 08.6	141 33.7 N 20 24.6	213 42.1 S 6 00.8	12 53.3 S 5 00.7	54.4	Markab	13	30.4	N 15 20.0
21	219 37.9	134 49.4 N 23 21.2	131 29.8 N 23 48.6	186 35.8 N 12 09.2	156 35.6 N 20 24.7	228 44.5 S 6 00.8	27 29.3 S 5 14.6	54.4	Menkar	314	07.0	N 4 11.1
22	234 40.4	149 49.3 N 23 21.2	146 28.9 N 23 48.7	201 36.5 N 12 09.8	171 37.4 N 20 24.8	243 46.9 S 6 00.8	42 05.3 S 5 28.6	54.4	Menkent	147	57.9	S 36 29.6
23	249 42.8	164 49.2 N 23 21.3	161 28.0 N 23 48.9	216 37.2 N 12 10.5	186 39.3 N 20 24.9	258 49.3 S 6 00.8	56 41.3 S 5 42.6	54.4				
16 00	264 45.3	179 49.0 N 23 21.4	176 27.1 N 23 49.0	231 37.9 N 12 11.1	201 41.2 N 20 25.0	273 51.7 S 6 00.7	71 17.2 S 5 56.5	54.4	Miaplacidus	221	38.9	S 69 49.3
01	279 47.8	194 48.9 N 23 21.5	191 26.2 N 23 49.1	246 38.6 N 12 11.7	216 43.0 N 20 25.1	288 54.1 S 6 00.7	85 53.1 S 6 10.4	54.4	Mirfak	308	29.5	N 49 56.7
02	294 50.2	209 48.8 N 23 21.6	206 25.4 N 23 49.3	261 39.3 N 12 12.3	231 44.9 N 20 25.2	303 56.5 S 6 00.7	100 29.0 S 6 24.3	54.5	Mizar	158	46.0	N 54 48.1
03	309 52.7	224 48.6 N 23 21.7	221 24.5 N 23 49.4	276 40.0 N 12 13.0	246 46.8 N 20 25.3	318 58.9 S 6 00.7	115 04.9 S 6 38.2	54.5	Nunki	75	48.0	S 26 16.0
04	324 55.1	239 48.5 N 23 21.7	236 23.6 N 23 49.5	291 40.7 N 12 13.6	261 48.6 N 20 25.4	334 01.3 S 6 00.7	129 40.7 S 6 52.1	54.5	Peacock	53	06.1	S 56 39.2
05	339 57.6	254 48.4 N 23 21.8	251 22.7 N 23 49.6	306 41.4 N 12 14.2	276 50.5 N 20 25.5	349 03.7 S 6 00.7	144 16.4 S 7 05.9	54.5	Polaris	314	43.2	N 89 21.8
06	355 00.1	269 48.2 N 23 21.9	266 21.8 N 23 49.8	321 42.1 N 12 14.9	291 52.4 N 20 25.6	4 06.1 S 6 00.7	158 52.2 S 7 19.8	54.5	Pollux	243	18.2	N 27 58.1
07	10 02.5	284 48.1 N 23 22.0	281 20.9 N 23 49.9	336 42.8 N 12 15.5	306 54.2 N 20 25.7	19 08.5 S 6 00.7	173 27.8 S 7 33.6	54.5	Procyon	244	51.6	N 5 09.8
08	25 05.0	299 48.0 N 23 22.1	296 20.0 N 23 50.0	351 43.5 N 12 16.1	321 56.1 N 20 25.8	34 11.0 S 6 00.6	188 03.5 S 7 47.4	54.5	Rasalhague	95	58.7	N 12 32.5
09	40 07.5	314 4										

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	GIUGNO	10
d h	'	'	'	'	'	'	'	'	'	'	'	'
17 00	265 44.4	179 45.8 N 23 23.2	176 05.7 N 23 51.8	231 54.6 N 12 26.2	202 26.0 N 20 27.5	274 49.5 S 6 00.5	61 27.1 S 11 24.7	54.8	NOME	360	- AR	Dec.
01	280 46.9	194 45.7 N 23 23.3	191 04.8 N 23 51.9	246 55.3 N 12 26.8	217 27.9 N 20 27.6	289 51.9 S 6 00.5	76 01.9 S 11 38.0	54.8	Acamar	315	12.5	S 40 12.3
02	295 49.4	209 45.5 N 23 23.3	206 03.9 N 23 52.0	261 56.0 N 12 27.4	232 29.7 N 20 27.7	304 54.3 S 6 00.4	90 36.6 S 11 51.3	54.8	Achernar	335	20.9	S 57 06.5
03	310 51.8	224 45.4 N 23 23.4	221 03.0 N 23 52.1	276 56.7 N 12 28.0	247 31.6 N 20 27.8	319 56.7 S 6 00.4	105 11.2 S 12 04.5	54.8	AcruX	173	00.5	S 63 14.4
04	325 54.3	239 45.3 N 23 23.5	236 02.1 N 23 52.2	291 57.4 N 12 28.7	262 33.5 N 20 27.9	334 59.2 S 6 00.4	119 45.7 S 12 17.7	54.8	Adhara	255	06.6	S 29 00.4
05	340 56.7	254 45.1 N 23 23.5	251 01.2 N 23 52.3	306 58.1 N 12 29.3	277 35.4 N 20 28.0	350 01.6 S 6 00.4	134 20.2 S 12 30.9	54.8	Aldebaran	290	40.5	N 16 33.5
06	355 59.2	269 45.0 N 23 23.6	266 00.3 N 23 52.4	321 58.7 N 12 29.9	292 37.2 N 20 28.1	5 04.0 S 6 00.4	148 54.7 S 12 44.0	54.9				
07	11 01.7	284 44.8 N 23 23.7	280 59.4 N 23 52.5	336 59.4 N 12 30.5	307 39.1 N 20 28.2	20 06.4 S 6 00.4	163 29.0 S 12 57.1	54.9	Alioth	166	13.1	N 55 49.9
08	26 04.1	299 44.7 N 23 23.7	295 58.6 N 23 52.6	352 00.1 N 12 31.1	322 41.0 N 20 28.3	35 08.8 S 6 00.4	178 03.3 S 13 10.2	54.9	Alkaid	152	52.1	N 49 11.7
09	41 06.6	314 44.6 N 23 23.8	310 57.7 N 23 52.7	7 00.8 N 12 31.8	337 42.8 N 20 28.4	50 11.2 S 6 00.4	192 37.5 S 13 23.2	54.9	Alnair	27	33.4	S 46 50.4
10	56 09.1	329 44.4 N 23 23.8	325 56.8 N 23 52.8	22 01.5 N 12 32.4	352 44.7 N 20 28.5	65 13.6 S 6 00.4	207 11.7 S 13 36.2	54.9	Alnilam	275	38.6	S 1 11.2
11	71 11.5	344 44.3 N 23 23.9	340 55.9 N 23 52.9	37 02.2 N 12 33.0	7 46.6 N 20 28.6	80 16.0 S 6 00.3	221 45.7 S 13 49.1	54.9	Alphard	217	48.4	S 8 45.9
12	86 14.0	359 44.2 N 23 24.0	355 55.0 N 23 53.0	52 02.9 N 12 33.6	22 48.4 N 20 28.7	95 18.5 S 6 00.3	236 19.7 S 14 02.0	55.0				
13	101 16.5	14 44.0 N 23 24.0	10 54.1 N 23 53.1	67 03.6 N 12 34.3	37 50.3 N 20 28.8	110 20.9 S 6 00.3	250 53.6 S 14 14.8	55.0	Alphecca	126	03.8	N 26 38.0
14	116 18.9	29 43.9 N 23 24.1	25 53.2 N 23 53.1	82 04.3 N 12 34.9	52 52.2 N 20 28.9	125 23.3 S 6 00.3	265 27.5 S 14 27.6	55.0	Alpheratz	357	35.4	N 29 13.3
15	131 21.4	44 43.8 N 23 24.1	40 52.3 N 23 53.2	97 05.0 N 12 35.5	67 54.0 N 20 29.0	140 25.7 S 6 00.3	280 01.3 S 14 40.3	55.0	Altair	62	00.2	N 8 55.9
16	146 23.9	59 43.6 N 23 24.2	55 51.4 N 23 53.3	112 05.7 N 12 36.1	82 55.9 N 20 29.1	155 28.1 S 6 00.3	294 34.9 S 14 53.0	55.0	Ankaa	353	07.8	S 42 10.2
17	161 26.3	74 43.5 N 23 24.2	70 50.5 N 23 53.4	127 06.4 N 12 36.7	97 57.8 N 20 29.2	170 30.5 S 6 00.3	309 08.6 S 15 05.7	55.1	Antares	112	16.1	S 26 29.2
18	176 28.8	89 43.4 N 23 24.3	85 49.6 N 23 53.5	142 07.1 N 12 37.4	112 59.7 N 20 29.3	185 32.9 S 6 00.3	323 42.1 S 15 18.3	55.1				
19	191 31.2	104 43.2 N 23 24.3	100 48.7 N 23 53.6	157 07.8 N 12 38.0	128 01.5 N 20 29.4	200 35.3 S 6 00.3	338 15.5 S 15 30.8	55.1	Arcturus	145	48.1	N 19 03.4
20	206 33.7	119 43.1 N 23 24.4	115 47.8 N 23 53.6	172 08.5 N 12 38.6	143 03.4 N 20 29.5	215 37.8 S 6 00.3	352 48.9 S 15 43.3	55.1	Atria	107	10.2	S 69 04.3
21	221 36.2	134 43.0 N 23 24.4	130 46.9 N 23 53.7	187 09.2 N 12 39.2	158 05.3 N 20 29.6	230 40.2 S 6 00.2	7 22.2 S 15 55.7	55.1	Avior	234	15.4	S 59 35.4
22	236 38.6	149 42.8 N 23 24.5	145 46.0 N 23 53.8	202 09.8 N 12 39.9	173 07.1 N 20 29.7	245 42.6 S 6 00.2	21 55.4 S 16 08.1	55.2	Bellatrix	278	23.8	N 6 22.3
23	251 41.1	164 42.7 N 23 24.5	160 45.1 N 23 53.9	217 10.5 N 12 40.5	188 09.0 N 20 29.8	260 45.0 S 6 00.2	36 28.5 S 16 20.4	55.2	Betelgeuse	270	53.0	N 7 24.7
18 00	266 43.6	179 42.5 N 23 24.6	175 44.2 N 23 53.9	232 11.2 N 12 41.1	203 10.9 N 20 29.9	275 47.4 S 6 00.2	51 01.5 S 16 32.7	55.2	Canopus	263	53.2	S 52 42.5
01	281 46.0	194 42.4 N 23 24.6	190 43.3 N 23 54.0	247 11.9 N 12 41.7	218 12.8 N 20 30.0	290 49.8 S 6 00.2	65 34.4 S 16 44.9	55.2	Capella	280	23.1	N 46 01.3
02	296 48.5	209 42.3 N 23 24.7	205 42.4 N 23 54.1	262 12.6 N 12 42.3	233 14.6 N 20 30.1	305 52.2 S 6 00.2	80 07.3 S 16 57.0	55.3	Castor	245	58.0	N 31 50.2
03	311 51.0	224 42.1 N 23 24.7	220 41.5 N 23 54.1	277 13.3 N 12 43.0	248 16.5 N 20 30.3	320 54.7 S 6 00.2	94 40.0 S 17 09.1	55.3	Deneb	49	25.8	N 45 21.8
04	326 53.4	239 42.0 N 23 24.8	235 40.6 N 23 54.2	292 14.0 N 12 43.6	263 18.4 N 20 30.4	335 57.1 S 6 00.2	109 12.7 S 17 21.1	55.3	Denebola	182	25.4	N 44 26.2
05	341 55.9	254 41.9 N 23 24.8	250 39.8 N 23 54.3	307 14.7 N 12 44.2	278 20.2 N 20 30.5	350 59.5 S 6 00.2	123 45.3 S 17 33.0	55.3				
06	356 58.3	269 41.7 N 23 24.9	265 38.9 N 23 54.4	322 15.4 N 12 44.8	293 22.1 N 20 30.6	6 01.9 S 6 00.2	138 17.8 S 17 44.9	55.3	Diphda	348	47.9	S 17 51.1
07	12 00.8	284 41.6 N 23 24.9	280 38.0 N 23 54.4	337 16.1 N 12 45.4	308 24.0 N 20 30.7	21 04.3 S 6 00.2	152 50.2 S 17 56.8	55.4	Dubhe	193	41.6	N 61 37.4
08	27 03.3	299 41.5 N 23 25.0	295 37.1 N 23 54.5	352 16.8 N 12 46.0	323 25.8 N 20 30.8	36 06.7 S 6 00.1	167 22.5 S 18 08.5	55.4	Elnath	278	02.9	N 28 37.7
09	42 05.7	314 41.3 N 23 25.0	310 36.2 N 23 54.5	7 17.5 N 12 46.7	338 27.7 N 20 30.9	51 09.2 S 6 00.1	181 54.7 S 18 20.2	55.4	Etamin	90	41.9	N 51 29.0
10	57 08.2	329 41.2 N 23 25.1	325 35.3 N 23 54.6	22 18.2 N 12 47.3	353 29.6 N 20 31.0	66 11.6 S 6 00.1	196 26.8 S 18 31.8	55.4	Enif	33	39.1	N 9 59.1
11	72 10.7	344 41.1 N 23 25.1	340 34.4 N 23 54.7	37 18.9 N 12 47.9	8 31.5 N 20 31.1	81 14.0 S 6 00.1	210 58.8 S 18 43.4	55.5				
12	87 13.1	359 40.9 N 23 25.1	355 33.5 N 23 54.7	52 19.6 N 12 48.5	23 33.3 N 20 31.2	96 16.4 S 6 00.1	225 30.7 S 18 54.8	55.5	Fomalhaut	15	15.0	S 29 29.5
13	102 15.6	14 40.8 N 23 25.2	10 32.6 N 23 54.8	67 20.2 N 12 49.1	38 35.2 N 20 31.3	111 18.8 S 6 00.1	240 02.5 S 19 06.2	55.5	Gacrux	171	52.0	S 57 15.3
14	117 18.1	29 40.7 N 23 25.2	25 31.7 N 23 54.8	82 20.9 N 12 49.7	53 37.1 N 20 31.4	126 21.2 S 6 00.1	254 34.2 S 19 17.6	55.5	Gienah	175	44.0	S 17 40.8
15	132 20.5	44 40.5 N 23 25.3	40 30.8 N 23 54.9	97 21.6 N 12 50.4	68 38.9 N 20 31.5	141 23.7 S 6 00.1	269 05.8 S 19 28.8	55.5	Hadar	148	36.3	S 60 29.7
16	147 23.0	59 40.4 N 23 25.3	55 29.9 N 23 55.0	112 22.3 N 12 51.0	83 40.8 N 20 31.6	156 26.1 S 6 00.1	283 37.4 S 19 40.0	55.6	Hamal	327	52.0	N 23 34.5
17	162 25.5	74 40.2 N 23 25.3	70 29.0 N 23 55.0	127 23.0 N 12 51.6	98 42.7 N 20 31.7	171 28.5 S 6 00.1	298 08.8 S 19 51.1	55.6				
18	177 27.9	89 40.1 N 23 25.4	85 28.1 N 23 55.1	142 23.7 N 12 52.2	113 44.6 N 20 31.8	186 30.9 S 6 00.1	312 40.1 S 20 02.1	55.6	Kaus aust.	83	32.8	S 34 22.3
19	192 30.4	104 40.0 N 23 25.4	100 27.2 N 23 55.1	157 24.4 N 12 52.8	128 46.4 N 20 31.9	201 33.3 S 6 00.0	327 11.3 S 20 13.0	55.6	Kochab	137	18.8	N 74 03.5
20	207 32.8	119 39.8 N 23 25.4	115 26.3 N 23 55.2	172 25.1 N 12 53.4	143 48.3 N 20 32.0	216 35.7 S 6 00.0	341 42.4 S 20 23.9	55.7	Markab	13	30.4	N 15 20.1
21	222 35.3	134 39.7 N 23 25.5	130 25.4 N 23 55.2	187 25.8 N 12 54.1	158 50.2 N 20 32.1	231 38.2 S 6 00.0	356 13.4 S 20 34.7	55.7	Menkar	314	06.9	N 4 11.1
22	237 37.8	149 39.6 N 23 25.5	145 24.5 N 23 55.3	202 26.5 N 12 54.7	173 52.0 N 20 32.2	246 40.6 S 6 00.0	10 44.3 S 20 45.4	55.7	Menkent	147	57.9	S 36 29.6
23	252 40.2	164 39.4 N 23 25.5	160 23.6 N 23 55.3	217 27.2 N 12 55.3	188 53.9 N 20 32.3	261 43.0 S 6 00.0	25 15.1 S 20 56.0	55.7				
19 00	267 42.7	179 39.3 N 23 25.6	175 22.7 N 23 55.3	232 27.9 N 12 55.9	203 55.8 N 20 32.4	276 45.4 S 6 00.0	39 45.8 S 21 06.5	55.8	Miaplacidus	221	39.0	S 69 49.3
01	282 45.2	194 39.2 N 23 25.6	190 21.8 N 23 55.4	247 28.6 N 12 56.5	218 57.7 N 20 32.5	291 47.8 S 6 00.0	54 16.4 S 21 16.9	55.8	Mirfak	308	29.4	N 49 56.7
02	297 47.6	209 39.0 N 23 25.6	205 20.9 N 23 55.4	262 29.3 N 12 57.1	233 59.5 N 20 32.6	306 50.3 S 6 00.0	68 46.9 S 21 27.2	55.8	Mizar	158	46.0	N 54 48.1
03	312 50.1	224 38.9 N 23 25.7	220 20.0 N 23 55.5	277 29.9 N 12 57.7	249 01.4 N 20 32.7	321 52.7 S 6 00.0	83 17.2 S 21 37.5	55.8	Nunki	75	48.0	S 26 16.0
04	327 52.6	239 38.8 N 23 25.7	235 19.1 N 23 55.5	292 30.6 N 12 58.3	264 03.3 N 20 32.8	336 55.1 S 6 00.0	97 47.5 S 21 47.6	55.9	Peacock	53	06.1	S 56 39.2
05	342 55.0	254 38.6 N 23 25.7	250 18.2 N 23 55.5	307 31.3 N 12 59.0	279 05.1 N 20 32.9	351 57.5 S 6 00.0	112 17.6 S 21 57.6	55.9	Polaris	314	42.1	N 89 21.8
06	357 57.5	269 38.5 N 23 25.8	265 17.3 N 23 55.6	322 32.0 N 12 59.6	294 07.0 N 20 33.0	6 59.9 S 6 00.0	126 47.7 S 22 07.6	55.9	Pollux	243	18.2	N 27 58.1
07	13 00.0	284 38.3 N 23 25.8	280 16.4 N 23 55.6	337 32.7 N 13 00.2	309 08.9 N 20 33.1	22 02.4 S 6 00.0	141 17.6 S 22 17.5	55.9	Procyon	244	51.6	N 5 09.8
08	28 02.4	299 38.2 N 23 25.8	295 15.5 N 23 55.7	352 33.4 N 13 00.8	324 10.8 N 20 33.2	37 04.8 S 5 59.9	155 47.5 S 22 27.2	56.0	Rasalhague	95		

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	GIUGNO	13							
d h	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	'	'	AR	Dec.	'							
20 00	268 41.8	179 36.0	N 23 26.1	175 01.2	N 23 56.0	232 44.5	N 13 10.6	204 40.7	N 20 34.8	277 43.5	S 5 59.8	27 29.9	S 24 48.7	56.4	NOME	360	-	AR	Dec.
01	283 44.3	194 35.9	N 23 26.2	190 00.3	N 23 56.1	247 45.2	N 13 11.2	219 42.6	N 20 34.9	292 45.9	S 5 59.8	41 57.8	S 24 56.6	56.4	Acamar	315	12.5	S	40 12.3
02	298 46.8	209 35.8	N 23 26.2	204 59.4	N 23 56.1	262 45.9	N 13 11.8	234 44.5	N 20 35.0	307 48.4	S 5 59.8	56 25.7	S 25 04.3	56.4	Achernar	335	20.8	S	57 06.5
03	313 49.2	224 35.6	N 23 26.2	219 58.5	N 23 56.1	277 46.5	N 13 12.4	249 46.3	N 20 35.1	322 50.8	S 5 59.8	70 53.5	S 25 11.9	56.5	Acruz	173	00.5	S	63 14.4
04	328 51.7	239 35.5	N 23 26.2	234 57.6	N 23 56.1	292 47.2	N 13 13.0	264 48.2	N 20 35.2	337 53.2	S 5 59.8	85 21.1	S 25 19.4	56.5	Adhara	255	06.6	S	29 00.3
05	343 54.2	254 35.4	N 23 26.2	249 56.7	N 23 56.1	307 47.9	N 13 13.6	279 50.1	N 20 35.3	352 55.6	S 5 59.8	99 48.6	S 25 26.7	56.5	Aldebaran	290	40.5	N	16 33.5
06	358 56.6	269 35.2	N 23 26.2	264 55.8	N 23 56.1	322 48.6	N 13 14.2	294 52.0	N 20 35.4	7 58.0	S 5 59.8	114 16.1	S 25 33.9	56.6					
07	13 59.1	284 35.1	N 23 26.2	279 54.9	N 23 56.1	337 49.3	N 13 14.8	309 53.8	N 20 35.5	23 00.5	S 5 59.8	128 43.4	S 25 41.0	56.6	Alioth	166	13.2	N	55 49.9
08	29 01.6	299 35.0	N 23 26.2	294 54.0	N 23 56.1	352 50.0	N 13 15.4	324 55.7	N 20 35.6	38 02.9	S 5 59.8	143 10.6	S 25 47.9	56.6	Alkaid	152	52.1	N	49 11.7
09	44 04.0	314 34.8	N 23 26.2	309 53.1	N 23 56.1	7 50.7	N 13 16.0	339 57.6	N 20 35.7	53 05.3	S 5 59.8	157 37.8	S 25 54.7	56.6	Alnair	27	33.3	S	46 50.4
10	59 06.5	329 34.7	N 23 26.3	324 52.2	N 23 56.1	22 51.4	N 13 16.6	354 59.4	N 20 35.8	68 07.7	S 5 59.8	172 04.8	S 26 01.4	56.7	Alnilam	275	38.6	S	1 11.2
11	74 08.9	344 34.6	N 23 26.3	339 51.3	N 23 56.1	37 52.1	N 13 17.2	10 01.3	N 20 35.9	83 10.2	S 5 59.8	186 31.7	S 26 08.0	56.7	Alphard	217	48.4	S	8 45.9
12	89 11.4	359 34.4	N 23 26.3	354 50.4	N 23 56.1	52 52.8	N 13 17.8	25 03.2	N 20 36.0	98 12.6	S 5 59.8	200 58.5	S 26 14.3	56.7					
13	104 13.9	14 34.3	N 23 26.3	9 49.5	N 23 56.1	67 53.5	N 13 18.4	40 05.1	N 20 36.1	113 15.0	S 5 59.8	215 25.2	S 26 20.6	56.7	Alphecca	126	03.8	N	26 38.0
14	119 16.3	29 34.1	N 23 26.3	24 48.6	N 23 56.1	82 54.2	N 13 19.1	55 06.9	N 20 36.2	128 17.4	S 5 59.8	229 51.8	S 26 26.7	56.8	Alpheratz	357	35.3	N	29 13.3
15	134 18.8	44 34.0	N 23 26.3	39 47.7	N 23 56.1	97 54.8	N 13 19.7	70 08.8	N 20 36.3	143 19.9	S 5 59.8	244 18.4	S 26 32.7	56.8	Altair	62	00.1	N	8 55.9
16	149 21.3	59 33.9	N 23 26.3	54 46.8	N 23 56.1	112 55.5	N 13 20.3	85 10.7	N 20 36.4	158 22.3	S 5 59.7	258 44.8	S 26 38.5	56.8	Ankaa	353	07.7	S	42 10.2
17	164 23.7	74 33.7	N 23 26.3	69 45.9	N 23 56.1	127 56.2	N 13 20.9	100 12.6	N 20 36.5	173 24.7	S 5 59.7	273 11.1	S 26 44.2	56.9	Antares	112	16.1	S	26 29.2
18	179 26.2	89 33.6	N 23 26.3	84 45.0	N 23 56.1	142 56.9	N 13 21.5	115 14.4	N 20 36.6	188 27.1	S 5 59.7	287 37.3	S 26 49.7	56.9					
19	194 28.7	104 33.5	N 23 26.3	99 44.1	N 23 56.1	157 57.6	N 13 22.1	130 16.3	N 20 36.7	203 29.6	S 5 59.7	302 03.5	S 26 55.1	56.9	Arcturus	145	48.1	N	19 03.4
20	209 31.1	119 33.3	N 23 26.3	114 43.2	N 23 56.1	172 58.3	N 13 22.7	145 18.2	N 20 36.8	218 32.0	S 5 59.7	316 29.5	S 27 00.3	56.9	Atria	107	10.2	S	69 04.3
21	224 33.6	134 33.2	N 23 26.3	129 42.3	N 23 56.1	187 59.0	N 13 23.3	160 20.1	N 20 36.9	233 34.4	S 5 59.7	330 55.4	S 27 05.4	57.0	Avior	234	15.5	S	59 35.4
22	239 36.1	149 33.1	N 23 26.3	144 41.4	N 23 56.1	202 59.7	N 13 23.9	175 21.9	N 20 37.0	248 36.8	S 5 59.7	345 21.3	S 27 10.3	57.0	Bellatrix	278	23.7	N	6 22.3
23	254 38.5	164 32.9	N 23 26.3	159 40.6	N 23 56.0	218 00.4	N 13 24.5	190 23.8	N 20 37.0	263 39.3	S 5 59.7	359 47.1	S 27 15.1	57.0	Betelgeuse	270	53.0	N	7 24.7
21 00	269 41.0	179 32.8	N 23 26.3	174 39.7	N 23 56.0	233 01.1	N 13 25.1	205 25.7	N 20 37.1	278 41.7	S 5 59.7	14 12.7	S 27 19.7	57.0	Canopus	263	53.2	S	52 42.5
01	284 43.4	194 32.7	N 23 26.3	189 38.8	N 23 56.0	248 01.7	N 13 25.7	220 27.6	N 20 37.2	293 44.1	S 5 59.7	28 38.3	S 27 24.2	57.1	Capella	280	23.1	N	46 01.3
02	299 45.9	209 32.5	N 23 26.3	204 37.9	N 23 56.0	263 02.4	N 13 26.3	235 29.4	N 20 37.3	308 46.5	S 5 59.7	43 03.8	S 27 28.5	57.1	Castor	245	58.0	N	31 50.2
03	314 48.4	224 32.4	N 23 26.3	219 37.0	N 23 56.0	278 03.1	N 13 26.9	250 31.3	N 20 37.4	323 49.0	S 5 59.7	57 29.3	S 27 32.6	57.1	Deneb	49	25.8	N	45 21.8
04	329 50.8	239 32.3	N 23 26.3	234 36.1	N 23 56.0	293 03.8	N 13 27.5	265 33.2	N 20 37.5	338 51.4	S 5 59.7	71 54.6	S 27 36.6	57.1	Denebola	182	25.4	N	14 26.2
05	344 53.3	254 32.1	N 23 26.3	249 35.2	N 23 55.9	308 04.5	N 13 28.1	290 35.1	N 20 37.6	353 53.8	S 5 59.7	86 19.9	S 27 40.4	57.2					
06	359 55.8	269 32.0	N 23 26.3	264 34.3	N 23 55.9	323 05.2	N 13 28.7	285 36.9	N 20 37.7	8 56.3	S 5 59.7	100 45.1	S 27 44.0	57.2	Diphda	348	47.9	S	17 51.1
07	14 58.2	284 31.8	N 23 26.3	279 33.4	N 23 55.9	338 05.9	N 13 29.3	310 38.8	N 20 37.8	23 58.7	S 5 59.7	115 10.2	S 27 47.5	57.2	Dubhe	193	41.7	N	61 37.4
08	30 00.7	299 31.7	N 23 26.2	294 32.5	N 23 55.9	353 06.6	N 13 29.9	325 40.7	N 20 37.9	39 01.1	S 5 59.7	129 35.2	S 27 50.9	57.3	Elnath	278	02.9	N	28 37.7
09	45 03.2	314 31.6	N 23 26.2	309 31.6	N 23 55.8	8 07.3	N 13 30.5	340 42.6	N 20 38.0	54 03.5	S 5 59.7	144 00.2	S 27 54.0	57.3	Etamin	90	41.9	N	51 29.0
10	60 05.6	329 31.4	N 23 26.2	324 30.7	N 23 55.8	23 08.0	N 13 31.1	355 44.4	N 20 38.1	69 06.0	S 5 59.7	158 25.1	S 27 57.0	57.3	Enif	33	39.1	N	9 59.1
11	75 08.1	344 31.3	N 23 26.2	339 29.8	N 23 55.8	38 08.7	N 13 31.7	10 46.3	N 20 38.2	84 08.4	S 5 59.7	172 49.9	S 27 59.8	57.3					
12	90 10.6	359 31.2	N 23 26.2	354 28.9	N 23 55.8	53 09.3	N 13 32.3	25 48.2	N 20 38.3	99 10.8	S 5 59.7	187 14.6	S 28 02.5	57.4	Fomalhaut	15	15.0	S	29 29.4
13	105 13.0	14 31.0	N 23 26.2	9 28.0	N 23 55.7	68 10.0	N 13 32.9	40 50.1	N 20 38.4	114 13.2	S 5 59.7	201 39.3	S 28 05.0	57.4	Gacrux	171	52.1	S	57 15.3
14	120 15.5	29 30.9	N 23 26.2	24 27.1	N 23 55.7	83 10.7	N 13 33.5	55 51.9	N 20 38.5	129 15.7	S 5 59.6	216 03.9	S 28 07.3	57.4	Gienah	175	44.0	S	17 40.8
15	135 17.9	44 30.8	N 23 26.2	39 26.2	N 23 55.7	98 11.4	N 13 34.1	70 53.8	N 20 38.6	144 18.1	S 5 59.6	230 28.5	S 28 09.4	57.4	Hadar	148	36.3	S	60 29.7
16	150 20.4	59 30.6	N 23 26.2	54 25.3	N 23 55.6	113 12.1	N 13 34.7	85 55.7	N 20 38.7	159 20.5	S 5 59.6	244 53.0	S 28 11.4	57.5	Hamal	327	52.0	N	23 34.5
17	165 22.9	74 30.5	N 23 26.1	69 24.4	N 23 55.6	128 12.8	N 13 35.3	100 57.6	N 20 38.8	174 23.0	S 5 59.6	259 17.5	S 28 13.2	57.5					
18	180 25.3	89 30.4	N 23 26.1	84 23.5	N 23 55.6	143 13.5	N 13 35.9	115 59.4	N 20 38.9	189 25.4	S 5 59.6	273 41.9	S 28 14.8	57.5	Kaus aust.	83	32.7	S	34 22.4
19	195 27.8	104 30.2	N 23 26.1	99 22.6	N 23 55.5	158 14.2	N 13 36.5	131 01.3	N 20 39.0	204 27.8	S 5 59.6	288 06.2	S 28 16.3	57.5	Kochab	137	18.8	N	74 03.5
20	210 30.3	119 30.1	N 23 26.1	114 21.7	N 23 55.5	173 14.9	N 13 37.1	146 03.2	N 20 39.1	219 30.3	S 5 59.6	302 30.5	S 28 17.6	57.6	Markab	13	30.3	N	15 20.1
21	225 32.7	134 30.0	N 23 26.1	129 20.8	N 23 55.4	188 15.5	N 13 37.7	161 05.1	N 20 39.2	234 32.7	S 5 59.6	316 54.7	S 28 18.6	57.6	Menkar	314	06.9	N	4 11.1
22	240 35.2	149 29.8	N 23 26.1	144 19.9	N 23 55.4	203 16.2	N 13 38.3	176 06.9	N 20 39.3	249 35.1	S 5 59.6	331 18.9	S 28 19.6	57.6	Menkent	147	57.9	S	36 29.6
23	255 37.7	164 29.7	N 23 26.0	159 19.0	N 23 55.4	218 16.9	N 13 38.9	191 08.8	N 20 39.4	264 37.5	S 5 59.6	345 43.1	S 28 20.3	57.6					
22 00	270 40.1	179 29.6	N 23 26.0	174 18.1	N 23 55.3	233 17.6	N 13 39.5	206 10.7	N 20 39.5	279 40.0	S 5 59.6	0 07.2	S 28 20.9	57.7	Miaplacidus	221			

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	GIUGNO	16
d h	'	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	'	'	'	'	'
23 00	271 39.3	179 26.3 N 23 25.4	173 56.6 N 23 53.9	233 34.2 N 13 53.7	206 55.7 N 20 41.8	280 38.3 S 5 59.6	345 39.7 S 27 39.9	58.2	NOME	360	- AR	Dec.
01	286 41.7	194 26.2 N 23 25.3	188 55.7 N 23 53.8	248 34.8 N 13 54.3	221 57.6 N 20 41.9	295 40.8 S 5 59.6	0 03.5 S 27 35.9	58.3	Acamar	315 12.5	S 40 12.2	
02	301 44.2	209 26.1 N 23 25.3	203 54.8 N 23 53.7	263 35.5 N 13 54.9	236 59.5 N 20 42.0	310 43.2 S 5 59.6	14 27.4 S 27 31.7	58.3	Achernar	335 20.8	S 57 06.5	
03	316 46.7	224 25.9 N 23 25.2	218 53.9 N 23 53.7	278 36.2 N 13 55.5	252 01.4 N 20 42.1	325 45.6 S 5 59.6	28 51.3 S 27 27.4	58.3	AcruX	173 00.5	S 63 14.4	
04	331 49.1	239 25.8 N 23 25.2	233 53.0 N 23 53.6	293 36.9 N 13 56.1	267 03.2 N 20 42.2	340 48.1 S 5 59.6	43 15.3 S 27 22.8	58.3	Adhara	255 06.6	S 29 00.3	
05	346 51.6	254 25.7 N 23 25.2	248 52.2 N 23 53.5	308 37.6 N 13 56.7	282 05.1 N 20 42.3	355 50.5 S 5 59.6	57 39.2 S 27 18.1	58.3	Aldebaran	290 40.5	N 16 33.5	
06	1 54.1	269 25.5 N 23 25.1	263 51.3 N 23 53.4	323 38.3 N 13 57.3	297 07.0 N 20 42.4	10 52.9 S 5 59.6	72 03.2 S 27 13.2	58.4				
07	16 56.5	284 25.4 N 23 25.1	278 50.4 N 23 53.3	338 39.0 N 13 57.9	312 08.9 N 20 42.5	25 55.4 S 5 59.6	86 27.2 S 27 08.2	58.4	Alioth	166 13.2	N 55 49.9	
08	31 59.0	299 25.3 N 23 25.0	293 49.5 N 23 53.3	353 39.7 N 13 58.4	327 10.7 N 20 42.6	40 57.8 S 5 59.6	100 51.3 S 27 02.9	58.4	Alkaid	152 52.1	N 49 11.7	
09	47 01.4	314 25.1 N 23 25.0	308 48.6 N 23 53.2	8 40.3 N 13 59.0	342 12.6 N 20 42.7	56 00.2 S 5 59.6	115 15.3 S 26 57.5	58.4	Alnair	27 33.3	S 46 50.4	
10	62 03.9	329 25.0 N 23 25.0	323 47.7 N 23 53.1	23 41.0 N 13 59.6	357 14.5 N 20 42.8	71 02.7 S 5 59.5	129 39.5 S 26 51.9	58.4	Alnilam	275 38.6	S 1 11.2	
11	77 06.4	344 24.9 N 23 24.9	338 46.8 N 23 53.0	38 41.7 N 14 00.2	12 16.4 N 20 42.9	86 05.1 S 5 59.5	144 03.6 S 26 46.1	58.5	Alphard	217 48.4	S 8 45.9	
12	92 08.8	359 24.7 N 23 24.9	353 45.9 N 23 52.9	53 42.4 N 14 00.8	27 18.3 N 20 43.0	101 07.6 S 5 59.5	158 27.8 S 26 40.2	58.5				
13	107 11.3	14 24.6 N 23 24.8	8 45.0 N 23 52.8	68 43.1 N 14 01.4	42 20.1 N 20 43.1	116 10.0 S 5 59.5	172 52.1 S 26 34.0	58.5	Alphecca	126 03.8	N 26 38.0	
14	122 13.8	29 24.5 N 23 24.8	23 44.1 N 23 52.7	83 43.8 N 14 02.0	57 22.0 N 20 43.2	131 12.4 S 5 59.5	187 16.4 S 26 27.7	58.5	Alpheratz	357 35.3	N 29 13.3	
15	137 16.2	44 24.3 N 23 24.7	38 43.2 N 23 52.6	98 44.5 N 14 02.6	72 23.9 N 20 43.2	146 14.9 S 5 59.5	201 40.7 S 26 21.3	58.5	Altair	62 00.1	N 8 55.9	
16	152 18.7	59 24.2 N 23 24.7	53 42.3 N 23 52.5	113 45.2 N 14 03.1	87 25.8 N 20 43.3	161 17.3 S 5 59.5	216 05.1 S 26 14.6	58.6	Ankaa	353 07.7	S 42 10.2	
17	167 21.2	74 24.1 N 23 24.6	68 41.4 N 23 52.4	128 45.8 N 14 03.7	102 27.6 N 20 43.4	176 19.7 S 5 59.5	230 29.6 S 26 07.8	58.6	Antares	112 16.1	S 26 29.2	
18	182 23.6	89 23.9 N 23 24.6	83 40.5 N 23 52.3	143 46.5 N 14 04.3	117 29.5 N 20 43.5	191 22.2 S 5 59.5	244 54.1 S 26 00.8	58.6				
19	197 26.1	104 23.8 N 23 24.5	98 39.6 N 23 52.3	158 47.2 N 14 04.9	132 31.4 N 20 43.6	206 24.6 S 5 59.5	259 18.6 S 25 53.6	58.6	Arcturus	145 48.1	N 19 03.4	
20	212 28.6	119 23.7 N 23 24.5	113 38.7 N 23 52.2	173 47.9 N 14 05.5	147 33.3 N 20 43.7	221 27.0 S 5 59.5	273 43.2 S 25 46.3	58.6	Atria	107 10.2	S 69 04.3	
21	227 31.0	134 23.5 N 23 24.4	128 37.8 N 23 52.1	188 48.6 N 14 06.1	162 35.2 N 20 43.8	236 29.5 S 5 59.5	288 07.9 S 25 38.8	58.6	Avior	234 15.5	S 59 35.4	
22	242 33.5	149 23.4 N 23 24.4	143 37.0 N 23 52.0	203 49.3 N 14 06.7	177 37.0 N 20 43.9	251 31.9 S 5 59.5	302 32.6 S 25 31.2	58.7	Bellatrix	278 23.7	N 6 22.3	
23	257 35.9	164 23.3 N 23 24.3	158 36.1 N 23 51.9	218 50.0 N 14 07.2	192 38.9 N 20 44.0	266 34.4 S 5 59.5	316 57.4 S 25 23.3	58.7	Betelgeuse	270 53.0	N 7 24.7	
24 00	272 38.4	179 23.1 N 23 24.3	173 35.2 N 23 51.7	233 50.7 N 14 07.8	207 40.8 N 20 44.1	281 36.8 S 5 59.5	331 22.2 S 25 15.3	58.7	Canopus	263 53.2	S 52 42.5	
01	287 40.9	194 23.0 N 23 24.2	188 34.3 N 23 51.6	248 51.4 N 14 08.4	222 42.7 N 20 44.2	296 39.2 S 5 59.5	345 47.1 S 25 07.2	58.7	Capella	280 23.1	N 46 01.3	
02	302 43.3	209 22.9 N 23 24.2	203 33.4 N 23 51.5	263 52.0 N 14 09.0	237 44.6 N 20 44.3	311 41.7 S 5 59.5	0 12.1 S 24 58.9	58.7	Castor	245 58.0	N 31 50.2	
03	317 45.8	224 22.7 N 23 24.1	218 32.5 N 23 51.4	278 52.7 N 14 09.6	252 46.4 N 20 44.4	326 44.1 S 5 59.5	14 37.2 S 24 50.4	58.7	Deneb	49 25.8	N 45 21.8	
04	332 48.3	239 22.6 N 23 24.0	233 31.6 N 23 51.3	293 53.4 N 14 10.2	267 48.3 N 20 44.5	341 46.5 S 5 59.5	29 02.3 S 24 41.8	58.8	Denebola	182 25.4	N 44 26.2	
05	347 50.7	254 22.5 N 23 24.0	248 30.7 N 23 51.2	308 54.1 N 14 10.7	282 50.2 N 20 44.6	356 49.0 S 5 59.5	43 27.5 S 24 33.0	58.8				
06	2 53.2	269 22.3 N 23 23.9	263 29.8 N 23 51.1	323 54.8 N 14 11.3	297 52.1 N 20 44.7	11 51.4 S 5 59.5	57 52.7 S 24 24.0	58.8	Diphda	348 47.9	S 17 51.1	
07	17 55.7	284 22.2 N 23 23.9	278 28.9 N 23 51.0	338 55.5 N 14 11.9	312 54.0 N 20 44.8	26 53.9 S 5 59.5	72 18.0 S 24 14.9	58.8	Dubhe	193 41.7	N 61 37.4	
08	32 58.1	299 22.1 N 23 23.8	293 28.0 N 23 50.9	353 56.2 N 14 12.5	327 55.8 N 20 44.9	41 56.3 S 5 59.6	86 43.4 S 24 05.6	58.8	Elnath	278 02.9	N 28 37.7	
09	48 00.6	314 21.9 N 23 23.8	308 27.1 N 23 50.8	8 56.8 N 14 13.1	342 57.7 N 20 45.0	56 58.7 S 5 59.6	101 08.9 S 23 56.2	58.8	Etamin	90 41.9	N 51 29.1	
10	63 03.1	329 21.8 N 23 23.7	323 26.2 N 23 50.6	23 57.5 N 14 13.7	357 59.6 N 20 45.0	72 01.2 S 5 59.6	115 34.4 S 23 46.7	58.9	Enif	33 39.1	N 9 59.1	
11	78 05.5	344 21.7 N 23 23.6	338 25.3 N 23 50.5	38 58.2 N 14 14.2	13 01.5 N 20 45.1	87 03.6 S 5 59.6	130 00.0 S 23 36.9	58.9				
12	93 08.0	359 21.5 N 23 23.6	353 24.5 N 23 50.4	53 58.9 N 14 14.8	28 03.4 N 20 45.2	102 06.1 S 5 59.6	144 25.7 S 23 27.1	58.9	Fomalhaut	15 15.0	S 29 29.4	
13	108 10.4	14 21.4 N 23 23.5	8 23.6 N 23 50.3	68 59.6 N 14 15.4	43 05.2 N 20 45.3	117 08.5 S 5 59.6	158 51.5 S 23 17.1	58.9	Gacrux	171 52.1	S 57 15.3	
14	123 12.9	29 21.3 N 23 23.4	23 22.7 N 23 50.2	84 00.3 N 14 16.0	58 07.1 N 20 45.4	132 10.9 S 5 59.6	173 17.3 S 23 06.9	58.9	Gienah	175 44.0	S 17 40.8	
15	138 15.4	44 21.1 N 23 23.4	38 21.8 N 23 50.1	99 01.0 N 14 16.6	73 09.0 N 20 45.5	147 13.4 S 5 59.6	187 43.3 S 22 56.6	58.9	Hadar	148 36.3	S 60 29.7	
16	153 17.8	59 21.0 N 23 23.3	53 20.9 N 23 49.9	114 01.7 N 14 17.1	88 10.9 N 20 45.6	162 15.8 S 5 59.6	202 09.3 S 22 46.1	58.9	Hamal	327 52.0	N 23 34.5	
17	168 20.3	74 20.9 N 23 23.3	68 20.0 N 23 49.8	129 02.3 N 14 17.7	103 12.8 N 20 45.7	177 18.3 S 5 59.6	216 35.3 S 22 35.5	59.0				
18	183 22.8	89 20.7 N 23 23.2	83 19.1 N 23 49.7	144 03.0 N 14 18.3	118 14.6 N 20 45.8	192 20.7 S 5 59.6	231 01.5 S 22 24.8	59.0	Kaus aust.	83 32.7	S 34 22.4	
19	198 25.2	104 20.6 N 23 23.1	98 18.2 N 23 49.6	159 03.7 N 14 18.9	133 16.5 N 20 45.9	207 23.1 S 5 59.6	245 27.7 S 22 13.9	59.0	Kochab	137 18.8	N 74 03.5	
20	213 27.7	119 20.5 N 23 23.1	113 17.3 N 23 49.4	174 04.4 N 14 19.5	148 18.4 N 20 46.0	222 25.6 S 5 59.6	259 54.1 S 22 02.9	59.0	Markab	13 30.3	N 15 20.1	
21	228 30.2	134 20.4 N 23 23.0	128 16.4 N 23 49.3	189 05.1 N 14 20.0	163 20.3 N 20 46.1	237 28.0 S 5 59.6	274 20.5 S 21 51.8	59.0	Menkar	314 06.9	N 4 11.1	
22	243 32.6	149 20.2 N 23 22.9	143 15.5 N 23 49.2	204 05.8 N 14 20.6	178 22.2 N 20 46.2	252 30.5 S 5 59.6	288 47.0 S 21 40.5	59.0	Menkent	147 57.9	S 36 29.6	
23	258 35.1	164 20.1 N 23 22.8	158 14.6 N 23 49.0	219 06.5 N 14 21.2	193 24.0 N 20 46.3	267 32.9 S 5 59.6	303 13.5 S 21 29.1	59.0				
25 00	273 37.5	179 20.0 N 23 22.8	173 13.8 N 23 48.9	234 07.1 N 14 21.8	208 25.9 N 20 46.4	282 35.3 S 5 59.6	317 40.2 S 21 17.5	59.0	Miaplacidus	221 39.0	S 69 49.2	
01	288 40.0	194 19.8 N 23 22.7	188 12.9 N 23 48.8	249 07.8 N 14 22.4	223 27.8 N 20 46.5	297 37.8 S 5 59.6	332 06.9 S 21 05.9	59.1	Mirfak	308 29.4	N 49 56.7	
02	303 42.5	209 19.7 N 23 22.6	203 12.0 N 23 48.6	264 08.5 N 14 22.9	238 29.7 N 20 46.6	312 40.2 S 5 59.6	346 33.7 S 20 54.0	59.1	Mizar	158 46.0	N 54 48.1	
03	318 44.9	224 19.6 N 23 22.6	218 11.1 N 23 48.5	279 09.2 N 14 23.5	253 31.6 N 20 46.6	327 42.7 S 5 59.6	1 00.6 S 20 42.1	59.1	Nunki	75 48.0	S 26 16.0	
04	333 47.4	239 19.4 N 23 22.5	233 10.2 N 23 48.4	294 09.9 N 14 24.1	268 33.4 N 20 46.7	342 45.1 S 5 59.6	15 27.6 S 20 30.1	59.1	Peacock	53 06.0	S 56 39.2	
05	348 49.9	254 19.3 N 23 22.4	248 09.3 N 23 48.2	309 10.6 N 14 24.7	283 35.3 N 20 46.8	357 47.5 S 5 59.6	29 54.7 S 20 17.9	59.1	Polaris	314 40.2	N 89 21.8	
06	3 52.3	269 19.2 N 23 22.3	263 08.4 N 23 48.1	324 11.3 N 14 25.3	298 37.2 N 20 46.9	12 50.0 S 5 59.6	44 21.8 S 20 05.6	59.1	Pollux	243 18.2	N 27 58.1	
07	18 54.8	284 19.0 N 23 22.3	278 07.5 N 23 47.9	339 12.0 N 14 25.8	313 39.1 N 20 47.0	27 52.4 S 5 59.6	58 49.0 S 19 53.1	59.1	Procyon	244 51.6	N 5 09.8	
08	33 57.3	299 18.9 N 23 22.2	293 06.6 N 23 47.8	354 12.6 N 14 26.4	328 41.0 N 20 47.1	42 54.9 S 5 59.6	73 16.3 S 19 40.6	59.1	Rasalh			

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	GIUGNO	19
d h	'	'	'	'	'	'	'	'	'	'	'	'
26 00	274 36.7	179 16.8 N 23 20.9	172 52.4 N 23 45.4	234 23.6 N 14 35.6	209 11.1 N 20 48.6	283 34.0 S 5 59.6	304 44.4 S 16 05.0	59.3	NOME	360	- AR	Dec.
01	289 39.2	194 16.7 N 23 20.8	187 51.5 N 23 45.2	249 24.3 N 14 36.2	224 12.9 N 20 48.7	298 36.4 S 5 59.6	319 13.0 S 15 50.7	59.3	Acamar	315	12.4	S 40 12.2
02	304 41.6	209 16.5 N 23 20.7	202 50.6 N 23 45.0	264 25.0 N 14 36.7	239 14.8 N 20 48.8	313 38.9 S 5 59.6	333 41.8 S 15 36.3	59.3	Achernar	335	20.8	S 57 06.5
03	319 44.1	224 16.4 N 23 20.6	217 49.7 N 23 44.9	279 25.7 N 14 37.3	254 16.7 N 20 48.9	328 41.3 S 5 59.6	348 10.6 S 15 21.8	59.3	AcruX	173	00.6	S 63 14.4
04	334 46.5	239 16.3 N 23 20.5	232 48.9 N 23 44.7	294 26.4 N 14 37.9	269 18.6 N 20 49.0	343 43.8 S 5 59.7	2 39.5 S 15 07.2	59.3	Adhara	255	06.6	S 29 00.3
05	349 49.0	254 16.2 N 23 20.4	247 48.0 N 23 44.5	309 27.0 N 14 38.5	284 20.5 N 20 49.1	358 46.2 S 5 59.7	17 08.4 S 14 52.6	59.3	Aldebaran	290	40.5	N 16 33.5
06	4 51.5	269 16.0 N 23 20.3	262 47.1 N 23 44.4	324 27.7 N 14 39.0	299 22.4 N 20 49.2	13 48.7 S 5 59.7	31 37.5 S 14 37.8	59.3				
07	19 53.9	284 15.9 N 23 20.2	277 46.2 N 23 44.2	339 28.4 N 14 39.6	314 24.2 N 20 49.2	28 51.1 S 5 59.7	46 06.6 S 14 23.0	59.3	Alioth	166	13.2	N 55 49.9
08	34 56.4	299 15.8 N 23 20.1	292 45.3 N 23 44.0	354 29.1 N 14 40.2	329 26.1 N 20 49.3	43 53.5 S 5 59.7	60 35.8 S 14 08.1	59.3	Alkaid	152	52.1	N 49 11.7
09	49 58.9	314 15.6 N 23 20.0	307 44.4 N 23 43.8	9 29.8 N 14 40.7	344 28.0 N 20 49.4	58 56.0 S 5 59.7	75 05.0 S 13 53.1	59.3	Alnair	27	33.3	S 46 50.4
10	65 01.3	329 15.5 N 23 20.0	322 43.5 N 23 43.7	24 30.5 N 14 41.3	359 29.9 N 20 49.5	73 58.4 S 5 59.7	89 34.3 S 13 38.0	59.3	Alnilam	275	38.6	S 1 11.2
11	80 03.8	344 15.4 N 23 19.9	337 42.7 N 23 43.5	39 31.1 N 14 41.9	14 31.8 N 20 49.6	89 00.9 S 5 59.7	104 03.7 S 13 22.9	59.3	Alphard	217	48.4	S 8 45.9
12	95 06.3	359 15.2 N 23 19.8	352 41.8 N 23 43.3	54 31.8 N 14 42.4	29 33.7 N 20 49.7	104 03.3 S 5 59.7	118 33.2 S 13 07.7	59.3				
13	110 08.7	14 15.1 N 23 19.7	7 40.9 N 23 43.1	69 32.5 N 14 43.0	44 35.5 N 20 49.8	119 05.8 S 5 59.7	133 02.7 S 12 52.4	59.3	Alphecca	126	03.8	N 26 38.0
14	125 11.2	29 15.0 N 23 19.6	22 40.0 N 23 43.0	84 33.2 N 14 43.6	59 37.4 N 20 49.9	134 08.2 S 5 59.7	147 32.3 S 12 37.1	59.3	Alpheratz	357	35.3	N 29 13.3
15	140 13.7	44 14.9 N 23 19.5	37 39.1 N 23 42.8	99 33.9 N 14 44.1	74 39.3 N 20 50.0	149 10.7 S 5 59.7	162 01.9 S 12 21.6	59.3	Altair	62	00.1	N 8 55.9
16	155 16.1	59 14.7 N 23 19.4	52 38.2 N 23 42.6	114 34.6 N 14 44.7	89 41.2 N 20 50.1	164 13.1 S 5 59.7	176 31.6 S 12 06.1	59.3	Ankaa	353	07.7	S 42 10.2
17	170 18.6	74 14.6 N 23 19.3	67 37.3 N 23 42.4	129 35.3 N 14 45.3	104 43.1 N 20 50.2	179 15.6 S 5 59.7	191 01.4 S 11 50.6	59.3	Antares	112	16.1	S 26 29.2
18	185 21.0	89 14.5 N 23 19.2	82 36.5 N 23 42.2	144 35.9 N 14 45.8	119 45.0 N 20 50.3	194 18.0 S 5 59.7	205 31.2 S 11 35.0	59.4				
19	200 23.5	104 14.3 N 23 19.1	97 35.6 N 23 42.0	159 36.6 N 14 46.4	134 46.0 N 20 50.4	209 20.5 S 5 59.7	220 01.1 S 11 19.3	59.4	Arcturus	145	48.1	N 19 03.4
20	215 26.0	119 14.2 N 23 19.0	112 34.7 N 23 41.9	174 37.3 N 14 47.0	149 48.7 N 20 50.4	224 22.9 S 5 59.7	234 31.0 S 11 03.6	59.4	Atria	107	10.2	S 69 04.3
21	230 28.4	134 14.1 N 23 18.9	127 33.8 N 23 41.7	189 38.0 N 14 47.6	164 50.6 N 20 50.5	239 25.4 S 5 59.7	249 01.0 S 10 47.8	59.4	Avior	234	15.5	S 59 35.4
22	245 30.9	149 13.9 N 23 18.8	142 32.9 N 23 41.5	204 38.7 N 14 48.1	179 52.5 N 20 50.6	254 27.8 S 5 59.7	263 31.1 S 10 31.9	59.4	Bellatrix	278	23.7	N 6 22.3
23	260 33.4	164 13.8 N 23 18.7	157 32.0 N 23 41.3	219 39.4 N 14 48.7	194 54.4 N 20 50.7	269 30.3 S 5 59.7	278 01.2 S 10 16.0	59.4	Betelgeuse	270	53.0	N 7 24.7
27 00	275 35.8	179 13.7 N 23 18.6	172 31.1 N 23 41.1	234 40.0 N 14 49.3	209 56.3 N 20 50.8	284 32.7 S 5 59.7	292 31.4 S 10 00.0	59.4	Canopus	263	53.2	S 52 42.5
01	290 38.3	194 13.6 N 23 18.4	187 30.3 N 23 40.9	249 40.7 N 14 49.8	224 58.1 N 20 50.9	299 35.2 S 5 59.7	307 01.6 S 9 44.0	59.4	Capella	280	23.1	N 46 01.3
02	305 40.8	209 13.4 N 23 18.3	202 29.4 N 23 40.7	264 41.4 N 14 50.4	240 00.0 N 20 51.0	314 37.6 S 5 59.8	321 31.9 S 9 28.0	59.4	Castor	245	58.0	N 31 50.2
03	320 43.2	224 13.3 N 23 18.2	217 28.5 N 23 40.5	279 42.1 N 14 50.9	255 01.9 N 20 51.1	329 40.1 S 5 59.8	336 02.2 S 9 11.8	59.4	Deneb	49	25.8	N 45 21.8
04	335 45.7	239 13.2 N 23 18.1	232 27.6 N 23 40.3	294 42.8 N 14 51.5	270 03.8 N 20 51.2	344 42.5 S 5 59.8	350 32.6 S 8 55.7	59.4	Denebola	182	25.4	N 14 26.2
05	350 48.1	254 13.0 N 23 18.0	247 26.7 N 23 40.1	309 43.5 N 14 52.1	285 05.7 N 20 51.3	359 45.0 S 5 59.8	5 03.0 S 8 39.5	59.4				
06	5 50.6	269 12.9 N 23 17.9	262 25.8 N 23 39.9	324 44.2 N 14 52.6	300 07.6 N 20 51.4	14 47.4 S 5 59.8	19 33.5 S 8 23.2	59.4	Diphda	348	47.8	S 17 51.1
07	20 53.1	284 12.8 N 23 17.8	277 25.0 N 23 39.7	339 44.8 N 14 53.2	315 09.4 N 20 51.4	29 49.9 S 5 59.8	34 04.0 S 8 06.9	59.4	Dubhe	193	41.7	N 61 37.4
08	35 55.5	299 12.7 N 23 17.7	292 24.1 N 23 39.5	354 45.5 N 14 53.8	330 11.3 N 20 51.5	44 52.3 S 5 59.8	48 34.5 S 7 50.6	59.4	Elnath	278	02.9	N 28 37.7
09	50 58.0	314 12.5 N 23 17.6	307 23.2 N 23 39.3	9 46.2 N 14 54.3	345 13.2 N 20 51.6	59 54.8 S 5 59.8	63 05.1 S 7 34.2	59.4	Etamin	90	41.9	N 51 29.1
10	66 00.5	329 12.4 N 23 17.5	322 22.3 N 23 39.1	24 46.9 N 14 54.9	0 15.1 N 20 51.7	74 57.2 S 5 59.8	77 35.8 S 7 17.8	59.4	Enif	33	39.1	N 9 59.1
11	81 02.9	344 12.3 N 23 17.4	337 21.4 N 23 38.9	39 47.6 N 14 55.5	15 17.0 N 20 51.8	89 59.7 S 5 59.8	92 06.4 S 7 01.4	59.4				
12	96 05.4	359 12.1 N 23 17.2	352 20.5 N 23 38.7	54 48.3 N 14 56.0	30 18.9 N 20 51.9	105 02.1 S 5 59.8	106 37.2 S 6 44.9	59.4	Fomalhaut	15	14.9	S 29 29.4
13	111 07.9	14 12.0 N 23 17.1	7 19.7 N 23 38.5	69 48.9 N 14 56.6	45 20.8 N 20 52.0	120 04.6 S 5 59.8	121 07.9 S 6 28.3	59.4	Gacrux	171	52.1	S 57 15.3
14	126 10.3	29 11.9 N 23 17.0	22 18.8 N 23 38.3	84 49.6 N 14 57.1	60 22.6 N 20 52.1	135 07.0 S 5 59.8	135 38.7 S 6 11.8	59.4	Gienah	175	44.1	S 17 40.7
15	141 12.8	44 11.8 N 23 16.9	37 17.9 N 23 38.1	99 50.3 N 14 57.7	75 24.5 N 20 52.2	150 09.5 S 5 59.8	150 09.5 S 5 55.2	59.4	Hadar	148	36.3	S 60 29.7
16	156 15.3	59 11.6 N 23 16.8	52 17.0 N 23 37.9	114 51.0 N 14 58.3	90 26.4 N 20 52.3	165 11.9 S 5 59.8	164 40.4 S 5 38.6	59.4	Hamal	327	51.9	N 23 34.6
17	171 17.7	74 11.5 N 23 16.7	67 16.1 N 23 37.7	129 51.7 N 14 58.8	105 28.3 N 20 52.4	180 14.4 S 5 59.8	179 11.3 S 5 22.0	59.4				
18	186 20.2	89 11.4 N 23 16.5	82 15.3 N 23 37.4	144 52.4 N 14 59.4	120 30.2 N 20 52.4	195 16.8 S 5 59.8	193 42.2 S 5 05.3	59.4	Kaus aust.	83	32.7	S 34 22.4
19	201 22.6	104 11.3 N 23 16.4	97 14.4 N 23 37.2	159 53.0 N 15 00.0	135 32.1 N 20 52.5	210 19.3 S 5 59.9	208 13.2 S 4 48.6	59.4	Kochab	137	18.9	N 74 03.5
20	216 25.1	119 11.1 N 23 16.3	112 13.5 N 23 37.0	174 53.7 N 15 00.5	150 34.0 N 20 52.6	225 21.7 S 5 59.9	222 44.1 S 4 31.9	59.4	Markab	13	30.3	N 15 20.1
21	231 27.6	134 11.0 N 23 16.2	127 12.6 N 23 36.8	189 54.4 N 15 01.1	165 35.8 N 20 52.7	240 24.2 S 5 59.9	237 15.2 S 4 15.2	59.4	Menkar	314	06.9	N 4 11.1
22	246 30.0	149 10.9 N 23 16.1	142 11.7 N 23 36.6	204 55.1 N 15 01.6	180 37.7 N 20 52.8	255 26.6 S 5 59.9	251 46.2 S 3 58.4	59.4	Menkent	147	58.0	S 36 29.6
23	261 32.5	164 10.7 N 23 15.9	157 10.9 N 23 36.4	219 55.8 N 15 02.2	195 39.6 N 20 52.9	270 29.1 S 5 59.9	266 17.2 S 3 41.6	59.4				
28 00	276 35.0	179 10.6 N 23 15.8	172 10.0 N 23 36.1	234 56.5 N 15 02.8	210 41.5 N 20 53.0	285 31.5 S 5 59.9	280 48.3 S 3 24.9	59.4	Miaplacidus	221	39.1	S 69 49.2
01	291 37.4	194 10.5 N 23 15.7	187 09.1 N 23 35.9	249 57.1 N 15 03.3	225 43.4 N 20 53.1	300 34.0 S 5 59.9	295 19.4 S 3 08.1	59.4	Mirfak	308	29.4	N 49 56.7
02	306 39.9	209 10.4 N 23 15.6	202 08.2 N 23 35.7	264 57.8 N 15 03.9	240 45.3 N 20 53.2	315 36.4 S 5 59.9	309 50.5 S 2 51.2	59.4	Mizar	158	46.0	N 54 48.1
03	321 42.4	224 10.2 N 23 15.5	217 07.3 N 23 35.5	279 58.5 N 15 04.4	255 47.2 N 20 53.3	330 38.9 S 5 59.9	324 21.7 S 2 34.4	59.4	Nunki	75	48.0	S 26 15.9
04	336 44.8	239 10.1 N 23 15.3	232 06.5 N 23 35.2	294 59.2 N 15 05.0	270 49.0 N 20 53.3	345 41.4 S 5 59.9	338 52.8 S 2 17.6	59.4	Peacock	53	06.0	S 56 39.2
05	351 47.3	254 10.0 N 23 15.2	247 05.6 N 23 35.0	309 59.9 N 15 05.5	285 50.9 N 20 53.4	0 43.8 S 5 59.9	353 24.0 S 2 00.7	59.4	Polaris	314	39.0	N 89 21.8
06	6 49.7	269 09.9 N 23 15.1	262 04.7 N 23 34.8	325 00.6 N 15 06.1	300 52.8 N 20 53.5	15 46.3 S 5 59.9	7 55.2 S 1 43.9	59.4	Pollux	243	18.2	N 27 58.1
07	21 52.2	284 09.7 N 23 15.0	277 03.8 N 23 34.6	340 01.2 N 15 06.7	315 54.7 N 20 53.6	30 48.7 S 5 59.9	22 26.4 S 1 27.0	59.3	Procyon	244	51.6	N 5 09.8
08	36 54.7	299 09.6 N 23 14.8	292 02.9 N 23 34.3	355 01.9 N 15 07.2	330 56.6 N 20 53.7	45 51.2 S 5 59.9	36 57.6 S 1 10.1	59.3	Rasalhague	95	58.6	N 12 32.5
09												

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	GIUGNO	22
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
29 00	277 34.1	179 07.6	N 23 12.7	171 48.9	N 23 30.5	235 12.9	N 15 16.1	211 26.8	N 20 55.1	286 30.5	S 6 00.1	269 17.5	N 3 19.3	59.3	NOME	360	- AR	Dec.
01	292 36.6	194 07.5	N 23 12.5	186 48.0	N 23 30.2	250 13.5	N 15 16.7	226 28.7	N 20 55.2	301 32.9	S 6 00.1	283 48.7	N 3 36.0	59.3	Acamar	315 12.4	S 40 12.2	
02	307 39.0	209 07.3	N 23 12.4	201 47.2	N 23 30.0	265 14.2	N 15 17.2	241 30.6	N 20 55.3	316 35.4	S 6 00.1	298 19.9	N 3 52.8	59.3	Achernar	335 20.8	S 57 06.5	
03	322 41.5	224 07.2	N 23 12.3	216 46.3	N 23 29.7	280 14.9	N 15 17.8	256 32.4	N 20 55.4	331 37.8	S 6 00.1	312 51.1	N 4 09.4	59.3	AcruX	173 00.6	S 63 14.4	
04	337 44.0	239 07.1	N 23 12.1	231 45.4	N 23 29.5	295 15.6	N 15 18.3	271 34.3	N 20 55.5	346 40.3	S 6 00.1	327 22.2	N 4 26.1	59.2	Adhara	255 06.6	S 29 00.3	
05	352 46.4	254 07.0	N 23 12.0	246 44.5	N 23 29.2	310 16.3	N 15 18.9	286 36.2	N 20 55.6	1 42.7	S 6 00.1	341 53.3	N 4 42.8	59.2	Aldebaran	290 40.5	N 16 33.5	
06	7 48.9	269 06.8	N 23 11.8	261 43.7	N 23 29.0	325 16.9	N 15 19.4	301 38.1	N 20 55.7	16 45.2	S 6 00.1	356 24.5	N 4 59.4	59.2				
07	22 51.4	284 06.7	N 23 11.7	276 42.8	N 23 28.7	340 17.6	N 15 20.0	316 40.0	N 20 55.8	31 47.7	S 6 00.1	10 55.6	N 5 16.0	59.2	Alioth	166 13.2	N 55 49.9	
08	37 53.8	299 06.6	N 23 11.6	291 41.9	N 23 28.4	355 18.3	N 15 20.5	331 41.9	N 20 55.8	46 50.1	S 6 00.1	25 26.6	N 5 32.5	59.2	Alkaid	152 52.1	N 49 11.7	
09	52 56.3	314 06.5	N 23 11.4	306 41.0	N 23 28.2	10 19.0	N 15 21.1	346 43.8	N 20 55.9	61 52.6	S 6 00.1	39 57.7	N 5 49.0	59.2	Alnair	27 33.2	S 46 50.4	
10	67 58.7	329 06.3	N 23 11.3	321 40.2	N 23 27.9	25 19.7	N 15 21.6	1 45.7	N 20 56.0	76 55.0	S 6 00.2	54 28.7	N 6 05.5	59.2	Alnilam	275 38.5	S 1 11.2	
11	83 01.2	344 06.2	N 23 11.1	336 39.3	N 23 27.7	40 20.4	N 15 22.2	16 47.5	N 20 56.1	91 57.5	S 6 00.2	68 59.7	N 6 22.0	59.2	Alphard	217 48.4	S 8 45.9	
12	98 03.7	359 06.1	N 23 11.0	351 38.4	N 23 27.4	55 21.0	N 15 22.7	31 49.4	N 20 56.2	107 00.0	S 6 00.2	83 30.7	N 6 38.4	59.2				
13	113 06.1	14 06.0	N 23 10.8	6 37.5	N 23 27.1	70 21.7	N 15 23.3	46 51.3	N 20 56.3	122 02.4	S 6 00.2	98 01.7	N 6 54.8	59.2	Alphecca	126 03.8	N 26 38.0	
14	128 08.6	29 05.8	N 23 10.7	21 36.7	N 23 26.9	85 22.4	N 15 23.8	61 53.2	N 20 56.4	137 04.9	S 6 00.2	112 32.6	N 7 11.2	59.2	Alpheratz	357 35.3	N 29 13.3	
15	143 11.1	44 05.7	N 23 10.5	36 35.8	N 23 26.6	100 23.1	N 15 24.4	76 55.1	N 20 56.5	152 07.3	S 6 00.2	127 03.5	N 7 27.5	59.2	Altair	62 00.1	N 8 55.9	
16	158 13.5	59 05.6	N 23 10.4	51 34.9	N 23 26.3	115 23.8	N 15 24.9	91 57.0	N 20 56.6	167 09.8	S 6 00.2	141 34.3	N 7 43.7	59.2	Ankaa	353 07.7	S 42 10.2	
17	173 16.0	74 05.5	N 23 10.2	66 34.1	N 23 26.0	130 24.4	N 15 25.5	106 58.9	N 20 56.6	182 12.2	S 6 00.2	156 05.2	N 8 00.0	59.2	Antares	112 16.1	S 26 29.2	
18	188 18.5	89 05.3	N 23 10.1	81 33.2	N 23 25.8	145 25.1	N 15 26.0	122 00.8	N 20 56.7	197 14.7	S 6 00.2	170 36.0	N 8 16.1	59.2				
19	203 20.9	104 05.2	N 23 09.9	96 32.3	N 23 25.5	160 25.8	N 15 26.6	137 02.7	N 20 56.8	212 17.2	S 6 00.2	185 06.7	N 8 32.3	59.1	Arcturus	145 48.1	N 19 03.4	
20	218 23.4	119 05.1	N 23 09.8	111 31.4	N 23 25.2	175 26.5	N 15 27.1	152 04.5	N 20 56.9	227 19.6	S 6 00.2	199 37.4	N 8 48.4	59.1	Atria	107 10.1	S 69 04.4	
21	233 25.8	134 05.0	N 23 09.6	126 30.6	N 23 25.0	190 27.2	N 15 27.7	167 06.4	N 20 57.0	242 22.1	S 6 00.3	214 08.1	N 9 04.4	59.1	Avior	234 15.5	S 59 35.4	
22	248 28.3	149 04.8	N 23 09.5	141 29.7	N 23 24.7	205 27.9	N 15 28.2	182 08.3	N 20 57.1	257 24.5	S 6 00.3	228 38.8	N 9 20.4	59.1	Bellatrix	278 23.7	N 6 22.3	
23	263 30.8	164 04.7	N 23 09.3	156 28.8	N 23 24.4	220 28.5	N 15 28.8	197 10.2	N 20 57.2	272 27.0	S 6 00.3	243 09.4	N 9 36.3	59.1	Betelgeuse	270 52.9	N 7 24.7	
30 00	278 33.2	179 04.6	N 23 09.1	171 28.0	N 23 24.1	235 29.2	N 15 29.3	212 12.1	N 20 57.3	287 29.5	S 6 00.3	257 39.9	N 9 52.2	59.1	Canopus	263 53.2	S 52 42.5	
01	293 35.7	194 04.5	N 23 09.0	186 27.1	N 23 23.8	250 29.9	N 15 29.8	227 14.0	N 20 57.3	302 31.9	S 6 00.3	272 10.5	N 10 08.0	59.1	Capella	280 23.1	N 46 01.3	
02	308 38.2	209 04.4	N 23 08.8	201 26.2	N 23 23.6	265 30.6	N 15 30.4	242 15.9	N 20 57.4	317 34.4	S 6 00.3	286 40.9	N 10 23.8	59.1	Castor	245 58.0	N 31 50.2	
03	323 40.6	224 04.2	N 23 08.7	216 25.4	N 23 23.3	280 31.3	N 15 30.9	257 17.8	N 20 57.5	332 36.8	S 6 00.3	301 11.4	N 10 39.5	59.1	Deneb	49 25.7	N 45 21.9	
04	338 43.1	239 04.1	N 23 08.5	231 24.5	N 23 23.0	295 31.9	N 15 31.5	272 19.7	N 20 57.6	347 39.3	S 6 00.3	315 41.7	N 10 55.2	59.1	Denebola	182 25.4	N 14 26.2	
05	353 45.6	254 04.0	N 23 08.4	246 23.6	N 23 22.7	310 32.6	N 15 32.0	287 21.5	N 20 57.7	2 41.8	S 6 00.3	330 12.1	N 11 10.8	59.1				
06	8 48.0	269 03.9	N 23 08.2	261 22.8	N 23 22.4	325 33.3	N 15 32.6	302 23.4	N 20 57.8	17 44.2	S 6 00.4	344 42.4	N 11 26.3	59.0	Diphda	348 47.8	S 17 51.0	
07	23 50.5	284 03.7	N 23 08.0	276 21.9	N 23 22.1	340 34.0	N 15 33.1	317 25.3	N 20 57.9	32 46.7	S 6 00.4	359 12.6	N 11 41.8	59.0	Dubhe	193 41.7	N 61 37.4	
08	38 53.0	299 03.6	N 23 07.9	291 21.0	N 23 21.9	355 34.7	N 15 33.7	332 27.2	N 20 58.0	47 49.2	S 6 00.4	13 42.8	N 11 57.2	59.0	Elnath	278 02.8	N 28 37.7	
09	53 55.4	314 03.5	N 23 07.7	306 20.1	N 23 21.6	10 35.4	N 15 34.2	347 29.1	N 20 58.0	62 51.6	S 6 00.4	28 12.9	N 12 12.6	59.0	Etamin	90 41.8	N 51 29.1	
10	68 57.9	329 03.4	N 23 07.6	321 19.3	N 23 21.3	25 36.0	N 15 34.7	2 31.0	N 20 58.1	77 54.1	S 6 00.4	42 43.0	N 12 27.8	59.0	Enif	33 39.1	N 9 59.2	
11	84 00.3	344 03.3	N 23 07.4	336 18.4	N 23 21.0	40 36.7	N 15 35.3	17 32.9	N 20 58.2	92 56.5	S 6 00.4	57 13.0	N 12 43.1	59.0				
12	99 02.8	359 03.1	N 23 07.2	351 17.5	N 23 20.7	55 37.4	N 15 35.8	32 34.8	N 20 58.3	107 59.0	S 6 00.4	71 43.0	N 12 58.2	59.0	Fomalhaut	15 14.9	S 29 29.4	
13	114 05.3	14 03.0	N 23 07.1	6 16.7	N 23 20.4	70 38.1	N 15 36.4	47 36.7	N 20 58.4	123 01.5	S 6 00.4	86 12.9	N 13 13.3	59.0	Gacrux	171 52.1	S 57 15.3	
14	129 07.7	29 02.9	N 23 06.9	21 15.8	N 23 20.1	85 38.8	N 15 36.9	62 38.6	N 20 58.5	138 03.9	S 6 00.4	100 42.8	N 13 28.2	59.0	Gienah	175 44.1	S 17 40.7	
15	144 10.2	44 02.8	N 23 06.7	36 14.9	N 23 19.8	100 39.4	N 15 37.5	77 40.5	N 20 58.6	153 06.4	S 6 00.4	115 12.6	N 13 43.2	59.0	Hadar	148 36.3	S 60 29.7	
16	159 12.7	59 02.6	N 23 06.6	51 14.1	N 23 19.5	115 40.1	N 15 38.0	92 42.3	N 20 58.7	168 08.9	S 6 00.5	129 42.3	N 13 58.0	58.9	Hamal	327 51.9	N 23 34.6	
17	174 15.1	74 02.5	N 23 06.4	66 13.2	N 23 19.2	130 40.8	N 15 38.5	107 44.2	N 20 58.7	183 11.3	S 6 00.5	144 12.0	N 14 12.8	58.9				
18	189 17.6	89 02.4	N 23 06.2	81 12.3	N 23 18.9	145 41.5	N 15 39.1	122 46.1	N 20 58.8	198 13.8	S 6 00.5	158 41.6	N 14 27.4	58.9	Kaus aust.	83 32.7	S 34 22.4	
19	204 20.1	104 02.3	N 23 06.1	96 11.5	N 23 18.6	160 42.2	N 15 39.6	137 48.0	N 20 58.9	213 16.2	S 6 00.5	173 11.2	N 14 42.0	58.9	Kochab	137 18.9	N 74 03.5	
20	219 22.5	119 02.2	N 23 05.9	111 10.6	N 23 18.3	175 42.8	N 15 40.2	152 49.9	N 20 59.0	228 18.7	S 6 00.5	187 40.7	N 14 56.6	58.9	Markab	13 30.3	N 55 20.1	
21	234 25.0	134 02.0	N 23 05.7	126 09.8	N 23 18.0	190 43.5	N 15 40.7	167 51.8	N 20 59.1	243 21.2	S 6 00.5	202 10.1	N 15 11.0	58.9	Menkar	314 06.9	N 4 11.1	
22	249 27.5	149 01.9	N 23 05.5	141 08.9	N 23 17.7	205 44.2	N 15 41.3	182 53.7	N 20 59.2	258 23.6	S 6 00.5	216 39.5	N 15 25.4	58.9	Menkent	147 58.0	S 36 29.6	
23	264 29.9	164 01.8	N 23 05.4	156 08.0	N 23 17.4	220 44.9	N 15 41.8	197 55.6	N 20 59.3	273 26.1	S 6 00.5	231 08.8	N 15 39.6	58.9				
Lug 01 00	279 32.4	179 01.7	N 23 05.2	171 07.2	N 23 17.1	235 45.6	N 15 42.3	212 57.5	N 20 59.3	288 28.6	S 6 00.5	245 38.0	N 15 53.8	58.9	Miaplacidus	221 39.1	S 69 49.2	
01	294 34.8	194 01.6	N 23 05.0	186 06.3	N 23 16.8	250 46.2	N 15 42.9	227 59.4	N 20 59.4	303 31.0	S 6 00.6	260 07.2						

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	GIUGNO	25
d h	' °	' °	' °	' °	' °	' °	' °	' °	' °	' °	' °	' °
02 00	280 31.5	178 58.8 N 23 00.8	170 46.5 N 23 09.3	236 01.9 N 15 55.2	213 42.9 N 21 01.4	289 27.8 S 6 00.8	232 58.4 N 21 03.7	58.5	NOME	360 - AR	Dec.	' °
01	295 34.0	193 58.7 N 23 00.7	185 45.6 N 23 09.0	251 02.6 N 15 55.7	228 44.8 N 21 01.5	304 30.2 S 6 00.9	247 25.8 N 21 15.2	58.5	Acamar	315 12.4	S 40 12.2	' °
02	310 36.4	208 58.6 N 23 00.5	200 44.8 N 23 08.7	266 03.3 N 15 56.3	243 46.7 N 21 01.6	319 32.7 S 6 00.9	261 53.2 N 21 26.5	58.5	Achernar	335 20.7	S 57 06.5	' °
03	325 38.9	223 58.5 N 23 00.3	215 43.9 N 23 08.3	281 03.9 N 15 56.8	258 48.6 N 21 01.7	334 35.2 S 6 00.9	276 20.4 N 21 37.8	58.5	AcruX	173 00.6	S 63 14.4	' °
04	340 41.4	238 58.3 N 23 00.1	230 43.1 N 23 08.0	296 04.6 N 15 57.3	273 50.5 N 21 01.8	349 37.6 S 6 00.9	290 47.6 N 21 48.9	58.5	Adhara	255 06.6	S 29 00.3	' °
05	355 43.8	253 58.2 N 22 59.9	245 42.2 N 23 07.6	311 05.3 N 15 57.9	288 52.4 N 21 01.8	4 40.1 S 6 00.9	305 14.7 N 21 59.9	58.5	Aldebaran	290 40.5	N 16 33.5	' °
06	10 46.3	268 58.1 N 22 59.7	260 41.4 N 23 07.3	326 06.0 N 15 58.4	303 54.3 N 21 01.9	19 42.6 S 6 00.9	319 41.8 N 22 10.7	58.4				' °
07	25 48.8	283 58.0 N 22 59.5	275 40.5 N 23 07.0	341 06.7 N 15 58.9	318 56.1 N 21 02.0	34 45.0 S 6 00.9	334 08.8 N 22 21.4	58.4	Alioth	166 13.2	N 55 49.9	' °
08	40 51.2	298 57.9 N 22 59.3	290 39.6 N 23 06.6	356 07.3 N 15 59.5	333 58.0 N 21 02.1	49 47.5 S 6 01.0	348 35.7 N 22 32.0	58.4	Alkaid	152 52.1	N 49 11.7	' °
09	55 53.7	313 57.7 N 22 59.1	305 38.8 N 23 06.3	11 08.0 N 16 00.0	348 59.9 N 21 02.2	64 50.0 S 6 01.0	3 02.5 N 22 42.4	58.4	Alnair	27 33.2	S 46 50.3	' °
10	70 56.2	328 57.6 N 22 58.9	320 37.9 N 23 05.9	26 08.7 N 16 00.5	4 01.8 N 21 02.3	79 52.5 S 6 01.0	17 29.2 N 22 52.7	58.4	Alnilam	275 38.5	S 1 11.1	' °
11	85 58.6	343 57.5 N 22 58.7	335 37.1 N 23 05.6	41 09.4 N 16 01.1	19 03.7 N 21 02.4	94 54.9 S 6 01.0	31 55.9 N 23 02.9	58.4	Alphard	217 48.4	S 8 45.9	' °
12	101 01.1	358 57.4 N 22 58.5	350 36.2 N 23 05.2	56 10.1 N 16 01.6	34 05.6 N 21 02.4	109 57.4 S 6 01.0	46 22.5 N 23 12.9	58.4				' °
13	116 03.6	13 57.3 N 22 58.3	5 35.4 N 23 04.9	71 10.7 N 16 02.1	49 07.5 N 21 02.5	124 59.9 S 6 01.0	60 49.0 N 23 22.8	58.3	Alphecca	126 03.8	N 26 38.0	' °
14	131 06.0	28 57.2 N 22 58.1	20 34.5 N 23 04.5	86 11.4 N 16 02.6	64 09.4 N 21 02.6	140 02.3 S 6 01.0	75 15.5 N 23 32.6	58.3	Alpheratz	357 35.2	N 29 13.4	' °
15	146 08.5	43 57.0 N 22 57.9	35 33.7 N 23 04.2	101 12.1 N 16 03.2	79 11.3 N 21 02.7	155 04.8 S 6 01.1	89 41.9 N 23 42.2	58.3	Altair	62 00.1	N 8 55.9	' °
16	161 10.9	58 56.9 N 22 57.7	50 32.8 N 23 03.8	116 12.8 N 16 03.7	94 13.2 N 21 02.8	170 07.3 S 6 01.1	104 08.2 N 23 51.6	58.3	Ankaa	353 07.6	S 42 10.2	' °
17	176 13.4	73 56.8 N 22 57.5	65 32.0 N 23 03.5	131 13.5 N 16 04.2	109 15.1 N 21 02.9	185 09.8 S 6 01.1	118 34.5 N 24 00.9	58.3	Antares	112 16.1	S 26 29.2	' °
18	191 15.9	88 56.7 N 22 57.3	80 31.1 N 23 03.1	146 14.1 N 16 04.8	124 17.0 N 21 02.9	200 12.2 S 6 01.1	133 00.6 N 24 10.1	58.3				' °
19	206 18.3	103 56.6 N 22 57.1	95 30.3 N 23 02.7	161 14.8 N 16 05.3	139 18.9 N 21 03.0	215 14.7 S 6 01.1	147 26.8 N 24 19.1	58.2	Arcturus	145 48.1	N 19 03.4	' °
20	221 20.8	118 56.5 N 22 56.9	110 29.4 N 23 02.4	176 15.5 N 16 05.8	154 20.8 N 21 03.1	230 17.2 S 6 01.1	161 52.8 N 24 28.0	58.2	Atria	107 10.1	S 69 04.4	' °
21	236 23.3	133 56.4 N 22 56.7	125 28.5 N 23 02.0	191 16.2 N 16 06.3	169 22.7 N 21 03.2	245 19.6 S 6 01.1	176 18.8 N 24 36.7	58.2	Avior	234 15.5	S 59 35.4	' °
22	251 25.7	148 56.2 N 22 56.5	140 27.7 N 23 01.7	206 16.8 N 16 06.9	184 24.6 N 21 03.3	260 22.1 S 6 01.2	190 44.7 N 24 45.2	58.2	Bellatrix	278 23.7	N 6 22.3	' °
23	266 28.2	163 56.1 N 22 56.3	155 26.8 N 23 01.3	221 17.5 N 16 07.4	199 26.5 N 21 03.4	275 24.6 S 6 01.2	205 10.5 N 24 53.7	58.2	Betelgeuse	270 52.9	N 7 24.7	' °
03 00	281 30.7	178 56.0 N 22 56.1	170 26.0 N 23 00.9	236 18.2 N 16 07.9	214 28.4 N 21 03.5	290 27.1 S 6 01.2	219 36.3 N 25 01.9	58.1	Canopus	263 53.2	S 52 42.5	' °
01	296 33.1	193 55.9 N 22 55.9	185 25.1 N 23 00.6	251 18.9 N 16 08.4	229 30.3 N 21 03.5	305 29.5 S 6 01.2	234 02.1 N 25 10.0	58.1	Capella	280 23.0	N 46 01.3	' °
02	311 35.6	208 55.8 N 22 55.7	200 24.3 N 23 00.2	266 19.6 N 16 09.0	244 32.1 N 21 03.6	320 32.0 S 6 01.2	248 27.7 N 25 18.0	58.1	Castor	245 58.0	N 31 50.2	' °
03	326 38.1	223 55.7 N 22 55.5	215 23.4 N 22 59.8	281 20.2 N 16 09.5	259 34.0 N 21 03.7	335 34.5 S 6 01.2	262 53.3 N 25 25.7	58.1	Deneb	49 25.7	N 45 21.9	' °
04	341 40.5	238 55.5 N 22 55.3	230 22.6 N 22 59.5	296 20.9 N 16 10.0	274 35.9 N 21 03.8	350 36.9 S 6 01.2	277 18.9 N 25 33.4	58.1	Denebola	182 25.4	N 14 26.2	' °
05	356 43.0	253 55.4 N 22 55.0	245 21.7 N 22 59.1	311 21.6 N 16 10.5	289 37.8 N 21 03.9	5 39.4 S 6 01.3	291 44.4 N 25 40.8	58.1				' °
06	11 45.4	268 55.3 N 22 54.8	260 20.9 N 22 58.7	326 22.3 N 16 11.1	304 39.7 N 21 04.0	20 41.9 S 6 01.3	306 09.8 N 25 48.2	58.0	Diphda	348 47.8	S 17 51.0	' °
07	26 47.9	283 55.2 N 22 54.6	275 20.0 N 22 58.3	341 23.0 N 16 11.6	319 41.6 N 21 04.0	35 44.4 S 6 01.3	320 35.2 N 25 55.3	58.0	Dubhe	193 41.7	N 61 37.4	' °
08	41 50.4	298 55.1 N 22 54.4	290 19.2 N 22 58.0	356 23.6 N 16 12.1	334 43.5 N 21 04.1	50 46.8 S 6 01.3	335 00.5 N 26 02.3	58.0	Elnath	278 02.8	N 28 37.7	' °
09	56 52.8	313 55.0 N 22 54.2	305 18.4 N 22 57.6	11 24.3 N 16 12.6	349 45.4 N 21 04.2	65 49.3 S 6 01.3	349 25.8 N 26 09.1	58.0	Etamin	90 41.8	N 51 29.1	' °
10	71 55.3	328 54.9 N 22 54.0	320 17.5 N 22 57.2	26 25.0 N 16 13.2	4 47.3 N 21 04.3	80 51.8 S 6 01.3	3 51.0 N 26 15.8	58.0	Enif	33 39.0	N 9 59.2	' °
11	86 57.8	343 54.7 N 22 53.8	335 16.7 N 22 56.8	41 25.7 N 16 13.7	19 49.2 N 21 04.4	95 54.3 S 6 01.4	18 16.2 N 26 22.3	57.9				' °
12	102 00.2	358 54.6 N 22 53.6	350 15.8 N 22 56.5	56 26.4 N 16 14.2	34 51.1 N 21 04.5	110 56.7 S 6 01.4	32 41.3 N 26 28.6	57.9	Fomalhaut	15 14.9	S 29 29.4	' °
13	117 02.7	13 54.5 N 22 53.3	5 15.0 N 22 56.1	71 27.0 N 16 14.7	49 53.0 N 21 04.5	125 59.2 S 6 01.4	47 06.4 N 26 34.8	57.9	Gacrux	171 52.1	S 57 15.3	' °
14	132 05.2	28 54.4 N 22 53.1	20 14.1 N 22 55.7	86 27.7 N 16 15.3	64 54.9 N 21 04.6	141 01.7 S 6 01.4	61 31.4 N 26 40.8	57.9	Gienah	175 44.1	S 17 40.7	' °
15	147 07.6	43 54.3 N 22 52.9	35 13.3 N 22 55.3	101 28.4 N 16 15.8	79 56.8 N 21 04.7	156 04.2 S 6 01.4	75 56.4 N 26 46.6	57.9	Hadar	148 36.3	S 60 29.7	' °
16	162 10.1	58 54.2 N 22 52.7	50 12.4 N 22 54.9	116 29.1 N 16 16.3	94 58.7 N 21 04.8	171 06.6 S 6 01.4	90 21.4 N 26 52.3	57.9	Hamal	327 51.9	N 23 34.6	' °
17	177 12.6	73 54.1 N 22 52.5	65 11.6 N 22 54.6	131 29.7 N 16 16.8	110 00.6 N 21 04.9	186 09.1 S 6 01.4	104 46.3 N 26 57.8	57.8				' °
18	192 15.0	88 54.0 N 22 52.3	80 10.7 N 22 54.2	146 30.2 N 16 17.3	125 02.5 N 21 05.0	201 11.6 S 6 01.5	119 11.2 N 27 03.1	57.8	Kaus aust.	83 32.7	S 34 22.4	' °
19	207 17.5	103 53.8 N 22 52.0	95 09.9 N 22 53.8	161 31.1 N 16 17.9	140 04.4 N 21 05.0	216 14.1 S 6 01.5	133 36.0 N 27 08.2	57.8	Kochab	137 19.0	N 74 03.5	' °
20	222 19.9	118 53.7 N 22 51.8	110 09.0 N 22 53.4	176 31.8 N 16 18.4	155 06.3 N 21 05.1	231 16.5 S 6 01.5	148 00.8 N 27 13.2	57.8	Markab	13 30.2	N 15 20.1	' °
21	237 22.4	133 53.6 N 22 51.6	125 08.2 N 22 53.0	191 32.5 N 16 18.9	170 08.2 N 21 05.2	246 19.0 S 6 01.5	162 25.6 N 27 18.0	57.8	Menkar	314 06.8	N 4 11.1	' °
22	252 24.9	148 53.5 N 22 51.4	140 07.4 N 22 52.6	206 33.1 N 16 19.4	185 10.1 N 21 05.3	261 21.5 S 6 01.5	176 50.4 N 27 22.7	57.7	Menkent	147 58.0	S 36 29.6	' °
23	267 27.3	163 53.4 N 22 51.2	155 06.5 N 22 52.2	221 33.8 N 16 20.0	200 12.0 N 21 05.4	276 24.0 S 6 01.5	191 15.1 N 27 27.1	57.7				' °
04 00	282 29.8	178 53.3 N 22 50.9	170 05.7 N 22 51.8	236 34.5 N 16 20.5	215 13.9 N 21 05.5	291 26.4 S 6 01.6	205 39.8 N 27 31.4	57.7	Miaplacidus	221 39.1	S 69 49.2	' °
01	297 32.3	193 53.2 N 22 50.7	185 04.8 N 22 51.4	251 35.2 N 16 21.0	230 15.8 N 21 05.5	306 28.9 S 6 01.6	220 04.5 N 27 35.6	57.7	Mirfak	308 29.3	N 49 56.7	' °
02	312 34.7	208 53.1 N 22 50.5	200 04.0 N 22 51.0	266 35.9 N 16 21.5	245 17.7 N 21 05.6	321 31.4 S 6 01.6	234 29.1 N 27 39.5	57.7	Mizar	158 46.1	N 54 48.1	' °
03	327 37.2	223 52.9 N 22 50.3	215 03.1 N 22 50.6	281 36.5 N 16 22.0	260 19.6 N 21 05.7	336 33.9 S 6 01.6	248 53.7 N 27 43.3	57.6	Nunki	75 47.9	S 26 15.9	' °
04	342 39.7	238 52.8 N 22 50.0	230 02.3 N 22 50.3	296 37.2 N 16 22.5	275 21.5 N 21 05.8	351 36.3 S 6 01.6	263 18.3 N 27 46.9	57.6	Peacock	53 05.9	S 56 39.2	' °
05	357 42.1	253 52.7 N 22 49.8	245 01.5 N 22 49.9	311 37.9 N 16 23.1	290 23.4 N 21 05.9	6 38.8 S 6 01.6	277 42.9 N 27 50.3	57.6	Polaris	314 36.2	N 89 21.8	' °
06	12 44.6	268 52.6 N 22 49.6	260 00.6 N 22 49.5	326 38.6 N 16 23.6	305 25.3 N 21 06.0	21 41.3 S 6 01.7	292 07.7 N 27 53.6	57.6	Pollux	243 18.2	N 27 58.1	' °
07	27 47.1	283 52.5 N 22 49.4	274 59.8 N 22 49.1	341 39.2 N 16 24.1	320 27.2 N 21 06.0	36 43.8 S 6 01.7	306 32.1 N 27 56.6	57.5	Procyon	244 51.6	N 5 09.8	' °
08	42 49.5	298 52.4 N 22 49.1	289 58.9 N									

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	GIUGNO	28
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	NOME	360	- AR	Dec.
05 00	283 28.9	178 50.6	N 22 45.4	169 45.5	N 22 42.1	236 50.8	N 16 32.9	215 59.5	N 21 07.4	292 25.9	S 6 02.0	191 30.2	N 28 22.0	57.2	NOME	360	- AR	Dec.
01	298 31.4	193 50.5	N 22 45.1	184 44.7	N 22 41.6	251 51.5	N 16 33.4	231 01.4	N 21 07.5	307 28.4	S 6 02.0	205 54.9	N 28 22.0	57.2	Acamar	315 12.4	S 40 12.2	
02	313 33.9	208 50.4	N 22 44.9	199 43.9	N 22 41.2	266 52.1	N 16 33.9	246 03.3	N 21 07.6	322 30.9	S 6 02.0	220 19.7	N 28 21.7	57.1	Achernar	335 20.7	S 57 06.5	
03	328 36.3	223 50.3	N 22 44.7	214 43.0	N 22 40.8	281 52.8	N 16 34.4	261 05.2	N 21 07.7	337 33.4	S 6 02.0	234 44.5	N 28 21.3	57.1	AcruX	173 00.6	S 63 14.4	
04	343 38.8	238 50.2	N 22 44.4	229 42.2	N 22 40.4	296 53.5	N 16 34.9	276 07.1	N 21 07.8	352 35.8	S 6 02.1	249 09.3	N 28 20.7	57.1	Adhara	255 06.6	S 29 00.3	
05	358 41.3	253 50.1	N 22 44.2	244 41.4	N 22 39.9	311 54.2	N 16 35.4	291 09.0	N 21 07.8	7 38.3	S 6 02.1	263 34.2	N 28 19.9	57.1	Aldebaran	290 40.4	N 16 33.5	
06	13 43.7	268 50.0	N 22 43.9	259 40.5	N 22 39.5	326 54.8	N 16 35.9	306 10.9	N 21 07.9	22 40.8	S 6 02.1	277 59.1	N 28 19.0	57.0				
07	28 46.2	283 49.9	N 22 43.7	274 39.7	N 22 39.1	341 55.5	N 16 36.4	321 12.8	N 21 08.0	37 43.3	S 6 02.1	292 24.1	N 28 17.9	57.0	Alioth	166 13.3	N 55 49.9	
08	43 48.7	298 49.8	N 22 43.4	289 38.9	N 22 38.7	356 56.2	N 16 36.9	336 14.7	N 21 08.1	52 45.8	S 6 02.1	306 49.1	N 28 16.6	57.0	Alkaid	152 52.2	N 49 11.7	
09	58 51.1	313 49.7	N 22 43.2	304 38.0	N 22 38.2	11 56.9	N 16 37.5	351 16.6	N 21 08.2	67 48.2	S 6 02.1	321 14.1	N 28 15.1	57.0	Alnair	27 33.2	S 46 50.3	
10	73 53.6	328 49.6	N 22 42.9	319 37.2	N 22 37.8	26 57.6	N 16 38.0	6 18.5	N 21 08.3	82 50.7	S 6 02.2	335 39.2	N 28 13.5	57.0	Alnilam	275 38.5	S 1 11.1	
11	88 56.0	343 49.5	N 22 42.7	334 36.4	N 22 37.4	41 58.2	N 16 38.5	21 20.4	N 21 08.3	97 53.2	S 6 02.2	350 04.3	N 28 11.7	56.9	Alphard	217 48.4	S 8 45.9	
12	103 58.5	358 49.3	N 22 42.5	349 35.5	N 22 36.9	56 58.9	N 16 39.0	36 22.3	N 21 08.4	112 55.7	S 6 02.2	4 29.5	N 28 09.8	56.9				
13	119 01.0	13 49.2	N 22 42.2	4 34.7	N 22 36.5	71 59.6	N 16 39.5	51 24.2	N 21 08.5	127 58.2	S 6 02.2	18 54.8	N 28 07.6	56.9	Alphecca	126 03.8	N 26 38.0	
14	134 03.4	28 49.1	N 22 42.0	19 33.9	N 22 36.1	87 00.3	N 16 40.0	66 26.1	N 21 08.6	143 00.6	S 6 02.2	33 20.1	N 28 05.3	56.9	Alpheratz	357 35.2	N 29 13.4	
15	149 05.9	43 49.0	N 22 41.7	34 33.0	N 22 35.6	102 00.9	N 16 40.5	81 28.0	N 21 08.7	158 03.1	S 6 02.3	47 45.4	N 28 02.9	56.8	Altair	62 00.1	N 8 55.9	
16	164 08.4	58 48.9	N 22 41.5	49 32.2	N 22 35.2	117 01.6	N 16 41.0	96 29.9	N 21 08.7	173 05.6	S 6 02.3	62 10.8	N 28 00.3	56.8	Ankaa	353 07.6	S 42 10.2	
17	179 10.8	73 48.8	N 22 41.2	64 31.4	N 22 34.7	132 02.3	N 16 41.5	111 31.8	N 21 08.8	188 08.1	S 6 02.3	76 36.3	N 27 57.5	56.8	Antares	112 16.1	S 26 29.2	
18	194 13.3	88 48.7	N 22 41.0	79 30.5	N 22 34.3	147 03.0	N 16 42.0	126 33.7	N 21 08.9	203 10.6	S 6 02.3	91 01.8	N 27 54.5	56.8				
19	209 15.8	103 48.6	N 22 40.7	94 29.7	N 22 33.9	162 03.7	N 16 42.5	141 35.6	N 21 09.0	218 13.1	S 6 02.3	105 27.4	N 27 51.4	56.7	Arcturus	145 48.1	N 19 03.4	
20	224 18.2	118 48.5	N 22 40.4	109 28.9	N 22 33.4	177 04.3	N 16 43.0	156 37.5	N 21 09.1	233 15.5	S 6 02.4	119 53.1	N 27 48.2	56.7	Atria	107 10.1	S 69 04.4	
21	239 20.7	133 48.4	N 22 40.2	124 28.1	N 22 33.0	192 05.0	N 16 43.6	171 39.4	N 21 09.1	248 18.0	S 6 02.4	134 18.8	N 27 44.7	56.7	Avior	234 15.5	S 59 35.4	
22	254 23.2	148 48.3	N 22 39.9	139 27.2	N 22 32.5	207 05.7	N 16 44.1	186 41.3	N 21 09.2	263 20.5	S 6 02.4	148 44.6	N 27 41.2	56.7	Bellatrix	278 23.7	N 6 22.3	
23	269 25.6	163 48.2	N 22 39.7	154 26.4	N 22 32.1	222 06.4	N 16 44.6	201 43.2	N 21 09.3	278 23.0	S 6 02.4	163 10.5	N 27 37.4	56.7	Betelgeuse	270 52.9	N 7 24.7	
06 00	284 28.1	178 48.1	N 22 39.4	169 25.6	N 22 31.6	237 07.0	N 16 45.1	216 45.1	N 21 09.4	293 25.5	S 6 02.4	177 36.5	N 27 33.5	56.6	Canopus	263 53.2	S 52 42.4	
01	299 30.5	193 48.0	N 22 39.2	184 24.8	N 22 31.2	252 07.7	N 16 45.6	231 47.0	N 21 09.5	308 28.0	S 6 02.5	192 02.5	N 27 29.5	56.6	Capella	280 23.0	N 46 01.3	
02	314 33.0	208 47.9	N 22 38.9	199 23.9	N 22 30.7	267 08.4	N 16 46.1	246 48.9	N 21 09.6	323 30.4	S 6 02.5	206 28.6	N 27 25.2	56.6	Castor	245 58.0	N 31 50.2	
03	329 35.5	223 47.8	N 22 38.7	214 23.1	N 22 30.3	282 09.1	N 16 46.6	261 50.8	N 21 09.6	338 32.9	S 6 02.5	220 54.8	N 27 20.9	56.6	Deneb	49 25.7	N 45 21.9	
04	344 37.9	238 47.7	N 22 38.4	229 22.3	N 22 29.8	297 09.8	N 16 47.1	276 52.7	N 21 09.7	353 35.4	S 6 02.5	235 21.0	N 27 16.4	56.5	Denebola	182 25.5	N 14 26.2	
05	359 40.4	253 47.6	N 22 38.1	244 21.4	N 22 29.4	312 10.4	N 16 47.6	291 54.6	N 21 09.8	8 37.9	S 6 02.5	249 47.4	N 27 11.7	56.5				
06	14 42.9	268 47.4	N 22 37.9	259 20.6	N 22 28.9	327 11.1	N 16 48.1	306 56.5	N 21 09.9	23 40.4	S 6 02.6	264 13.8	N 27 06.9	56.5	Diphda	348 47.8	S 17 51.0	
07	29 45.3	283 47.3	N 22 37.6	274 19.8	N 22 28.5	342 11.8	N 16 48.6	321 58.4	N 21 10.0	38 42.9	S 6 02.6	278 40.3	N 27 01.9	56.5	Dubhe	193 41.8	N 61 37.4	
08	44 47.8	298 47.2	N 22 37.4	289 19.0	N 22 28.0	357 12.5	N 16 49.1	337 00.3	N 21 10.0	53 45.4	S 6 02.6	293 06.9	N 26 56.8	56.4	Elnath	278 02.8	N 28 37.7	
09	59 50.3	313 47.1	N 22 37.1	304 18.2	N 22 27.6	12 13.1	N 16 49.6	352 02.2	N 21 10.1	68 47.8	S 6 02.6	307 33.5	N 26 51.5	56.4	Etamin	90 41.8	N 51 29.1	
10	74 52.7	328 47.0	N 22 36.8	319 17.3	N 22 27.1	27 13.8	N 16 50.1	7 04.1	N 21 10.2	83 50.3	S 6 02.6	322 00.0	N 26 46.1	56.4	Enif	33 39.0	N 9 59.2	
11	89 55.2	343 46.9	N 22 36.6	334 16.5	N 22 26.6	42 14.5	N 16 50.6	22 06.0	N 21 10.3	98 52.8	S 6 02.7	336 27.1	N 26 40.5	56.4				
12	104 57.7	358 46.8	N 22 36.3	349 15.7	N 22 26.2	57 15.2	N 16 51.1	37 07.9	N 21 10.4	113 55.3	S 6 02.7	350 54.1	N 26 34.8	56.4	Fomalhaut	15 14.8	S 29 29.4	
13	120 00.1	13 46.7	N 22 36.0	4 14.9	N 22 25.7	72 15.8	N 16 51.6	52 09.8	N 21 10.4	128 57.8	S 6 02.7	5 21.1	N 26 29.0	56.3	Gacrux	171 52.2	S 57 15.3	
14	135 02.6	28 46.6	N 22 35.8	19 14.0	N 22 25.2	87 16.5	N 16 52.1	67 11.7	N 21 10.5	144 00.3	S 6 02.7	19 48.2	N 26 23.0	56.3	Gienah	175 44.1	S 17 40.7	
15	150 05.0	43 46.5	N 22 35.5	34 13.2	N 22 24.8	102 17.2	N 16 52.6	82 13.6	N 21 10.6	159 02.8	S 6 02.7	34 15.4	N 26 16.9	56.3	Hadar	148 36.4	S 60 29.7	
16	165 07.5	58 46.4	N 22 35.2	49 12.4	N 22 24.3	117 17.9	N 16 53.1	97 15.5	N 21 10.7	174 05.2	S 6 02.8	48 42.7	N 26 10.6	56.3	Hamal	327 51.9	N 23 34.6	
17	180 10.0	73 46.3	N 22 35.0	64 11.6	N 22 23.9	132 18.6	N 16 53.6	112 17.4	N 21 10.8	189 07.7	S 6 02.8	63 10.1	N 26 04.2	56.2				
18	195 12.4	88 46.2	N 22 34.7	79 10.8	N 22 23.4	147 19.2	N 16 54.1	127 19.3	N 21 10.8	204 10.2	S 6 02.8	77 37.6	N 25 57.7	56.2	Kaus aust.	83 32.7	S 34 22.4	
19	210 14.9	103 46.1	N 22 34.4	94 09.9	N 22 22.9	162 19.9	N 16 54.6	142 21.2	N 21 10.9	219 12.7	S 6 02.8	92 05.1	N 25 51.0	56.2	Kochab	137 19.0	N 74 03.5	
20	225 17.4	118 46.0	N 22 34.2	109 09.1	N 22 22.4	177 20.6	N 16 55.1	157 23.2	N 21 11.0	234 15.2	S 6 02.8	106 32.8	N 25 44.2	56.2	Markab	13 30.2	N 15 20.1	
21	240 19.8	133 45.9	N 22 33.9	124 08.3	N 22 22.0	192 21.3	N 16 55.6	172 25.1	N 21 11.1	249 17.7	S 6 02.9	121 00.6	N 25 37.3	56.1	Menkar	314 06.8	N 4 11.1	
22	255 22.3	148 45.8	N 22 33.6	139 07.5	N 22 21.5	207 21.9	N 16 56.1	187 27.0	N 21 11.2	264 20.2	S 6 02.9	135 28.5	N 25 30.2	56.1	Menkent	147 58.0	S 36 29.6	
23	270 24.8	163 45.7	N 22 33.4	154 06.7	N 22 21.0	222 22.6	N 16 56.6	202 28.9	N 21 11.2	279 22.6	S 6 02.9	149 56.4	N 25 23.1	56.1				
07 00	285 27.2	178 45.6	N 22 33.1	169 05.8	N 22 20.6	237 23.3	N 16 57.1	217 30.8	N 21 11.3	294 25.1	S 6 02.9	164 24.5	N 25 15.7	56.1	Miaplacidus	221 39.2	S 69 49.2	
01	300 29.7	193 45.5	N 22 32.8	184 05.0	N 22 20.1	252 24.0	N 16 57.6	232 32.7	N 21 11.4	309 27.6								

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	LUGLIO	01
d h	'	'	'	'	'	'	'	'	'	'	'	'
08 00	286 26.4	178 43.2 N 22 26.4	168 46.3 N 22 08.8	237 39.5 N 17 09.0	218 16.5 N 21 13.2	295 24.9 S 6 03.5	152 08.6 N 21 45.2	55.5	NOME	360	- AR	Dec.
01	301 28.8	193 43.1 N 22 26.1	183 45.5 N 22 08.3	252 40.2 N 17 09.5	233 18.4 N 21 13.3	310 27.4 S 6 03.5	166 39.2 N 21 35.2	55.5	Acamar	315	12.4	S 40 12.2
02	316 31.3	208 43.0 N 22 25.8	198 44.7 N 22 07.8	267 40.9 N 17 10.0	248 20.3 N 21 13.4	325 29.9 S 6 03.5	181 09.9 N 21 25.0	55.5	Achernar	335	20.7	S 57 06.4
03	331 33.8	223 42.9 N 22 25.5	213 43.9 N 22 07.3	282 41.6 N 17 10.5	263 22.2 N 21 13.4	340 32.4 S 6 03.5	195 40.7 N 21 14.7	55.5	Acruz	173	00.7	S 63 14.4
04	346 36.2	238 42.8 N 22 25.2	228 43.1 N 22 06.8	297 42.2 N 17 11.0	278 24.1 N 21 13.5	355 34.9 S 6 03.5	210 11.6 N 21 04.4	55.4	Adhara	255	06.6	S 29 00.3
05	1 38.7	253 42.8 N 22 24.9	243 42.3 N 22 06.3	312 42.9 N 17 11.4	293 26.1 N 21 13.6	10 37.3 S 6 03.6	224 42.6 N 20 54.0	55.4	Aldebaran	290	40.4	N 16 33.5
06	16 41.2	268 42.7 N 22 24.6	258 41.5 N 22 05.8	327 43.6 N 17 11.9	308 28.0 N 21 13.7	25 39.8 S 6 03.6	239 13.7 N 20 43.4	55.4				
07	31 43.6	283 42.6 N 22 24.3	273 40.7 N 22 05.3	342 44.3 N 17 12.4	323 29.9 N 21 13.8	40 42.3 S 6 03.6	253 45.0 N 20 32.8	55.4	Alioth	166	13.3	N 55 49.9
08	46 46.1	298 42.5 N 22 24.0	288 39.9 N 22 04.8	357 45.0 N 17 12.9	338 31.8 N 21 13.8	55 44.8 S 6 03.6	268 16.3 N 20 22.1	55.4	Alkaid	152	52.2	N 49 11.7
09	61 48.5	313 42.4 N 22 23.7	303 39.1 N 22 04.2	12 45.6 N 17 13.4	353 33.7 N 21 13.9	70 47.3 S 6 03.7	282 47.7 N 20 11.4	55.3	Alnair	27	33.1	S 46 50.3
10	76 51.0	328 42.3 N 22 23.4	318 38.3 N 22 03.7	27 46.3 N 17 13.9	8 35.6 N 21 14.0	85 49.8 S 6 03.7	297 19.2 N 20 00.5	55.3	Alnilam	275	38.5	S 1 11.1
11	91 53.5	343 42.2 N 22 23.1	333 37.5 N 22 03.2	42 47.0 N 17 14.4	23 37.5 N 21 14.1	100 52.3 S 6 03.7	311 50.8 N 19 49.6	55.3	Alphard	217	48.4	S 8 45.9
12	106 55.9	358 42.1 N 22 22.8	348 36.6 N 22 02.7	57 47.7 N 17 14.9	38 39.4 N 21 14.1	115 54.8 S 6 03.7	326 22.5 N 19 38.5	55.3				
13	121 58.4	13 42.0 N 22 22.5	3 35.8 N 22 02.2	72 48.3 N 17 15.4	53 41.3 N 21 14.2	130 57.3 S 6 03.8	340 54.3 N 19 27.4	55.3	Alphecca	126	03.8	N 26 38.0
14	137 00.9	28 41.9 N 22 22.2	18 35.0 N 22 01.7	87 49.0 N 17 15.8	68 43.2 N 21 14.3	145 59.8 S 6 03.8	355 26.2 N 19 16.3	55.2	Alpheratz	357	35.2	N 29 13.4
15	152 03.3	43 41.8 N 22 21.9	33 34.2 N 22 01.2	102 49.7 N 17 16.3	83 45.1 N 21 14.4	161 02.3 S 6 03.8	9 58.1 N 19 05.0	55.2	Altair	62	00.1	N 8 55.9
16	167 05.8	58 41.7 N 22 21.6	48 33.4 N 22 00.6	117 50.4 N 17 16.8	98 47.0 N 21 14.5	176 04.8 S 6 03.8	24 30.2 N 18 53.7	55.2	Ankaa	353	07.6	S 42 10.2
17	182 08.3	73 41.6 N 22 21.3	63 32.6 N 22 00.1	132 51.0 N 17 17.3	113 49.0 N 21 14.5	191 07.3 S 6 03.9	39 02.4 N 18 42.3	55.2	Antares	112	16.1	S 26 29.2
18	197 10.7	88 41.5 N 22 21.0	78 31.8 N 21 59.6	147 51.7 N 17 17.8	128 50.9 N 21 14.6	206 09.8 S 6 03.9	53 34.7 N 18 30.8	55.2				
19	212 13.2	103 41.4 N 22 20.7	93 31.0 N 21 59.1	162 52.4 N 17 18.3	143 52.8 N 21 14.7	221 12.3 S 6 03.9	68 07.0 N 18 19.3	55.1	Arcturus	145	48.2	N 19 03.4
20	227 15.6	118 41.3 N 22 20.4	108 30.2 N 21 58.5	177 53.1 N 17 18.8	158 54.7 N 21 14.8	236 14.7 S 6 03.9	82 39.4 N 18 07.7	55.1	Atria	107	10.2	S 69 04.4
21	242 18.1	133 41.2 N 22 20.1	123 29.4 N 21 58.0	192 53.7 N 17 19.2	173 56.6 N 21 14.8	251 17.2 S 6 04.0	97 12.0 N 17 56.0	55.1	Avior	234	15.5	S 59 35.3
22	257 20.6	148 41.2 N 22 19.8	138 28.6 N 21 57.5	207 54.4 N 17 19.7	188 58.5 N 21 14.9	266 19.7 S 6 04.0	111 44.6 N 17 44.2	55.1	Bellatrix	278	23.7	N 6 22.3
23	272 23.0	163 41.1 N 22 19.5	153 27.8 N 21 57.0	222 55.1 N 17 20.2	204 00.4 N 21 15.0	281 22.2 S 6 04.0	126 17.3 N 17 32.4	55.1	Betelgeuse	270	52.9	N 7 24.7
09 00	287 25.5	178 41.0 N 22 19.2	168 27.0 N 21 56.4	237 55.8 N 17 20.7	219 02.3 N 21 15.1	296 24.7 S 6 04.0	140 50.1 N 17 20.5	55.0	Canopus	263	53.2	S 52 42.4
01	302 28.0	193 40.9 N 22 18.9	183 26.2 N 21 55.9	252 56.5 N 17 21.2	234 04.2 N 21 15.2	311 27.2 S 6 04.0	155 23.0 N 17 08.6	55.0	Capella	280	23.0	N 46 01.3
02	317 30.4	208 40.8 N 22 18.6	198 25.4 N 21 55.4	267 57.1 N 17 21.7	249 06.1 N 21 15.2	326 29.7 S 6 04.1	169 56.0 N 16 56.6	55.0	Castor	245	58.0	N 31 50.2
03	332 32.9	223 40.7 N 22 18.3	213 24.6 N 21 54.8	282 57.8 N 17 22.1	264 08.1 N 21 15.3	341 32.2 S 6 04.1	184 29.0 N 16 44.5	55.0	Deneb	49	25.7	N 45 21.9
04	347 35.4	238 40.6 N 22 18.0	228 23.8 N 21 54.3	297 58.5 N 17 22.6	279 10.0 N 21 15.4	356 34.7 S 6 04.1	199 02.2 N 16 32.4	55.0	Denebola	182	25.5	N 14 26.2
05	2 37.8	253 40.5 N 22 17.7	243 23.0 N 21 53.8	312 59.2 N 17 23.1	294 11.9 N 21 15.5	11 37.2 S 6 04.1	213 35.4 N 16 20.2	55.0				
06	17 40.3	268 40.4 N 22 17.4	258 22.2 N 21 53.2	327 59.8 N 17 23.6	309 13.8 N 21 15.5	26 39.7 S 6 04.2	228 08.7 N 16 07.9	54.9	Diphda	348	47.7	S 17 51.0
07	32 42.8	283 40.3 N 22 17.1	273 21.5 N 21 52.7	343 00.5 N 17 24.1	324 15.7 N 21 15.6	41 42.2 S 6 04.2	242 42.1 N 15 55.6	54.9	Dubhe	193	41.8	N 61 37.4
08	47 45.2	298 40.2 N 22 16.8	288 20.7 N 21 52.2	358 01.2 N 17 24.6	339 17.6 N 21 15.7	56 44.7 S 6 04.2	257 15.5 N 15 43.3	54.9	Elnath	278	02.8	N 28 37.7
09	62 47.7	313 40.1 N 22 16.5	303 19.9 N 21 51.6	13 01.9 N 17 25.0	354 19.5 N 21 15.8	71 47.2 S 6 04.2	271 49.1 N 15 30.9	54.9	Etamin	90	41.8	N 51 29.1
10	77 50.1	328 40.0 N 22 16.2	318 19.1 N 21 51.1	28 02.5 N 17 25.5	9 21.4 N 21 15.8	86 49.7 S 6 04.3	286 22.7 N 15 18.4	54.9	Enif	33	39.0	N 9 59.2
11	92 52.6	343 40.0 N 22 15.8	333 18.3 N 21 50.5	43 03.2 N 17 26.0	24 23.3 N 21 15.9	101 52.2 S 6 04.3	300 56.4 N 15 05.9	54.9				
12	107 55.1	358 39.9 N 22 15.5	348 17.5 N 21 50.0	58 03.9 N 17 26.5	39 25.2 N 21 16.0	116 54.7 S 6 04.3	315 30.2 N 14 53.3	54.8	Fomalhaut	15	14.8	S 29 29.4
13	122 57.5	13 39.8 N 22 15.2	3 16.7 N 21 49.5	73 04.6 N 17 27.0	54 27.2 N 21 16.1	131 57.2 S 6 04.3	330 04.0 N 14 40.7	54.8	Gacrux	171	52.2	S 57 15.3
14	138 00.0	28 39.7 N 22 14.9	18 15.9 N 21 48.9	88 05.2 N 17 27.4	69 29.1 N 21 16.2	146 59.7 S 6 04.4	344 38.0 N 14 28.0	54.8	Gienah	175	44.1	S 17 40.7
15	153 02.5	43 39.6 N 22 14.6	33 15.1 N 21 48.4	103 05.9 N 17 27.9	84 31.0 N 21 16.2	162 02.2 S 6 04.4	359 12.0 N 14 15.3	54.8	Hadar	148	36.4	S 60 29.7
16	168 04.9	58 39.5 N 22 14.3	48 14.3 N 21 47.8	118 06.6 N 17 28.4	99 32.9 N 21 16.3	177 04.7 S 6 04.4	13 46.0 N 14 02.5	54.8	Hamal	327	51.8	N 23 34.6
17	183 07.4	73 39.4 N 22 14.0	63 13.5 N 21 47.3	133 07.3 N 17 28.9	114 34.8 N 21 16.4	192 07.2 S 6 04.4	28 20.2 N 13 49.7	54.8				
18	198 09.9	88 39.3 N 22 13.6	78 12.7 N 21 46.7	148 07.9 N 17 29.4	129 36.7 N 21 16.5	207 09.7 S 6 04.5	42 54.4 N 13 36.8	54.7	Kaus aust.	83	32.7	S 34 22.4
19	213 12.3	103 39.2 N 22 13.3	93 11.9 N 21 46.2	163 08.6 N 17 29.8	144 38.6 N 21 16.5	222 12.2 S 6 04.5	57 28.7 N 13 23.9	54.7	Kochab	137	19.1	N 74 03.5
20	228 14.8	118 39.2 N 22 13.0	108 11.1 N 21 45.6	178 09.3 N 17 30.3	159 40.5 N 21 16.6	237 14.7 S 6 04.5	72 03.0 N 13 11.0	54.7	Markab	13	30.2	N 15 20.1
21	243 17.3	133 39.1 N 22 12.7	123 10.4 N 21 45.1	193 10.0 N 17 30.8	174 42.5 N 21 16.7	252 17.2 S 6 04.6	86 37.5 N 12 58.0	54.7	Menkar	314	06.8	N 4 11.2
22	258 19.7	148 39.0 N 22 12.4	138 09.6 N 21 44.5	208 10.6 N 17 31.3	189 44.4 N 21 16.8	267 19.7 S 6 04.6	101 11.9 N 12 44.9	54.7	Menkent	147	58.0	S 36 29.6
23	273 22.2	163 38.9 N 22 12.0	153 08.8 N 21 44.0	223 11.3 N 17 31.8	204 46.3 N 21 16.8	282 22.2 S 6 04.6	115 46.5 N 12 31.8	54.7				
10 00	288 24.6	178 38.8 N 22 11.7	168 08.0 N 21 43.4	238 12.0 N 17 32.2	219 48.2 N 21 16.9	297 24.7 S 6 04.6	130 21.1 N 12 18.7	54.6	Miaplacidus	221	39.2	S 69 49.2
01	303 27.1	193 38.7 N 22 11.4	183 07.2 N 21 42.9	253 12.7 N 17 32.7	234 50.1 N 21 17.0	312 27.2 S 6 04.7	144 55.8 N 12 05.6	54.6	Mirfak	308	29.3	N 49 56.7
02	318 29.6	208 38.6 N 22 11.1	198 06.4 N 21 42.3	268 13.4 N 17 33.2	249 52.0 N 21 17.1	327 29.7 S 6 04.7	159 30.5 N 11 52.4	54.6	Mizar	158	46.1	N 54 48.1
03	333 32.0	223 38.5 N 22 10.8	213 05.6 N 21 41.7	283 14.0 N 17 33.7	264 53.9 N 21 17.1	342 32.2 S 6 04.7	174 05.3 N 11 39.1	54.6	Nunki	75	47.9	S 26 16.0
04	348 34.5	238 38.5 N 22 10.4	228 04.8 N 21 41.2	298 14.7 N 17 34.1	279 55.8 N 21 17.2	357 34.7 S 6 04.7	188 40.2 N 11 25.9	54.6	Peacock	53	05.9	S 56 39.2
05	3 37.0	253 38.4 N 22 10.1	243 04.0 N 21 40.6	313 15.4 N 17 34.6	294 57.8 N 21 17.3	12 37.2 S 6 04.8	203 15.1 N 11 12.5	54.6	Polaris	314	33.8	N 89 21.8
06	18 39.4	268 38.3 N 22 09.8	258 03.3 N 21 40.1	328 16.1 N 17 35.1	309 59.7 N 21 17.4	27 39.7 S 6 04.8	217 50.1 N 10 59.2	54.6	Pollux	243	18.2	N 27 58.1
07	33 41.9	283 38.2 N 22 09.5	273 02.5 N 21 39.5	343 16.7 N 17 35.6	325 01.6 N 21 17.4	42 42.2 S 6 04.8	232 25.2 N 10 45.8	54.6	Procyon	244	51.6	N 5 09.8
08	48 44.4	298 38.1 N 22 09.1	288 01.7 N 21 38.9	358 17.4 N 17 36.0	340 03.5 N 21 17.5	57 44.7 S 6 04.8	247 00.3 N 10 32.4	54.5	Rasalhague	95		

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	LUGLIO	04
d h	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "				
11 00	289 23.8	178 36.8	N 22 03.8	167 49.2	N 21 29.8	238 28.2	N 17 43.6	220 34.1	N 21 18.7	298 24.7	S 6 05.3	120 28.4	N 6 54.1	54.4	NOME	360	- AR	Dec.
01	304 26.2	193 36.7	N 22 03.5	182 48.4	N 21 29.2	253 28.9	N 17 44.1	235 36.0	N 21 18.8	313 27.2	S 6 05.3	135 04.3	N 6 40.2	54.4	Acamar	315 12.3	S 40 12.2	
02	319 28.7	208 36.6	N 22 03.2	197 47.6	N 21 28.6	268 29.6	N 17 44.5	250 37.9	N 21 18.9	328 29.7	S 6 05.3	149 40.2	N 6 26.4	54.4	Achernar	335 20.6	S 57 06.4	
03	334 31.2	223 36.5	N 22 02.8	212 46.9	N 21 28.0	283 30.2	N 17 45.0	265 39.9	N 21 19.0	343 32.2	S 6 05.4	164 16.2	N 6 12.5	54.3	Acruz	173 00.7	S 63 14.4	
04	349 33.6	238 36.4	N 22 02.5	227 46.1	N 21 27.4	298 30.9	N 17 45.5	280 41.8	N 21 19.0	358 34.7	S 6 05.4	178 52.1	N 5 58.6	54.3	Adhara	255 06.6	S 29 00.3	
05	4 36.1	253 36.3	N 22 02.1	242 45.3	N 21 26.9	313 31.6	N 17 45.9	295 43.7	N 21 19.1	13 37.2	S 6 05.4	193 28.1	N 5 44.7	54.3	Aldebaran	290 40.4	N 16 33.5	
06	19 38.6	268 36.3	N 22 01.8	257 44.5	N 21 26.3	328 32.3	N 17 46.4	310 45.6	N 21 19.2	28 39.7	S 6 05.4	208 04.2	N 5 30.8	54.3				
07	34 41.0	283 36.2	N 22 01.5	272 43.7	N 21 25.7	343 32.9	N 17 46.9	325 47.5	N 21 19.3	43 42.2	S 6 05.5	222 40.2	N 5 16.8	54.3	Alioth	166 13.3	N 55 49.9	
08	49 43.5	298 36.1	N 22 01.1	287 43.0	N 21 25.1	358 33.6	N 17 47.3	340 49.4	N 21 19.3	58 44.7	S 6 05.5	237 16.3	N 5 02.9	54.3	Alkaid	152 52.2	N 49 11.7	
09	64 46.0	313 36.0	N 22 00.8	302 42.2	N 21 24.5	13 34.3	N 17 47.8	355 51.4	N 21 19.4	73 47.2	S 6 05.5	251 52.5	N 4 48.9	54.3	Alnair	27 33.1	S 46 50.3	
10	79 48.4	328 35.9	N 22 00.4	317 41.4	N 21 23.9	28 35.0	N 17 48.3	10 53.3	N 21 19.5	88 49.7	S 6 05.6	266 28.6	N 4 34.9	54.3	Alnilam	275 38.5	S 1 11.1	
11	94 50.9	343 35.9	N 22 00.1	332 40.7	N 21 23.3	43 35.7	N 17 48.7	25 55.2	N 21 19.5	103 52.2	S 6 05.6	281 04.8	N 4 20.9	54.3	Alphard	217 48.4	S 8 45.9	
12	109 53.4	358 35.8	N 21 59.8	347 39.9	N 21 22.7	58 36.3	N 17 49.2	40 57.1	N 21 19.6	118 54.7	S 6 05.6	295 41.0	N 4 06.9	54.3				
13	124 55.8	13 35.7	N 21 59.4	2 39.1	N 21 22.1	73 37.0	N 17 49.7	55 59.0	N 21 19.7	133 57.2	S 6 05.6	310 17.2	N 3 52.9	54.3	Alphecca	126 03.8	N 26 38.0	
14	139 58.3	28 35.6	N 21 59.1	17 38.3	N 21 21.5	88 37.7	N 17 50.1	71 00.9	N 21 19.8	148 59.7	S 6 05.7	324 53.7	N 3 38.8	54.3	Alpheratz	357 35.2	N 29 13.4	
15	155 00.7	43 35.5	N 21 58.7	32 37.6	N 21 20.9	103 38.4	N 17 50.6	86 02.9	N 21 19.8	164 02.2	S 6 05.7	339 29.7	N 3 24.8	54.3	Altair	62 00.0	N 8 56.0	
16	170 03.2	58 35.5	N 21 58.4	47 36.8	N 21 20.3	118 39.0	N 17 51.1	101 04.8	N 21 19.9	179 04.8	S 6 05.7	354 06.0	N 3 10.8	54.3	Ankaa	353 07.5	S 42 10.2	
17	185 05.7	73 35.4	N 21 58.0	62 36.0	N 21 19.7	133 39.7	N 17 51.5	116 06.7	N 21 20.0	194 07.3	S 6 05.8	8 42.3	N 2 56.7	54.3	Antares	112 16.1	S 26 29.2	
18	200 08.1	88 35.3	N 21 57.7	77 35.2	N 21 19.1	148 40.4	N 17 52.0	131 08.6	N 21 20.1	209 09.8	S 6 05.8	23 18.6	N 2 42.6	54.3				
19	215 10.6	103 35.2	N 21 57.3	92 34.5	N 21 18.5	163 41.1	N 17 52.4	146 10.5	N 21 20.1	224 12.3	S 6 05.8	37 54.9	N 2 28.6	54.3	Arcturus	145 48.2	N 19 03.4	
20	230 13.1	118 35.1	N 21 57.0	107 33.7	N 21 17.9	178 41.7	N 17 52.9	161 12.4	N 21 20.2	239 14.8	S 6 05.8	52 31.3	N 2 14.5	54.2	Atria	107 10.1	S 69 04.4	
21	245 15.5	133 35.1	N 21 56.6	122 32.9	N 21 17.3	193 42.4	N 17 53.4	176 14.4	N 21 20.3	254 17.3	S 6 05.9	67 07.6	N 2 00.4	54.2	Avior	234 15.5	S 59 35.3	
22	260 18.0	148 35.0	N 21 56.3	137 32.2	N 21 16.7	208 43.1	N 17 53.8	191 16.3	N 21 20.4	269 19.8	S 6 05.9	81 44.0	N 1 46.3	54.2	Bellatrix	278 23.7	N 6 22.3	
23	275 20.5	163 34.9	N 21 55.9	152 31.4	N 21 16.1	223 43.8	N 17 54.3	206 18.2	N 21 20.4	284 22.3	S 6 05.9	96 20.4	N 1 32.3	54.2	Betelgeuse	270 52.9	N 7 24.7	
12 00	290 22.9	178 34.8	N 21 55.6	167 30.6	N 21 15.5	238 44.4	N 17 54.8	221 20.1	N 21 20.5	299 24.8	S 6 06.0	110 56.8	N 1 18.2	54.2	Canopus	263 53.1	S 52 42.4	
01	305 25.4	193 34.7	N 21 55.2	182 29.9	N 21 14.9	253 45.1	N 17 55.2	236 22.0	N 21 20.6	314 27.3	S 6 06.0	125 33.2	N 1 04.1	54.2	Capella	280 23.0	N 46 01.3	
02	320 27.8	208 34.7	N 21 54.9	197 29.1	N 21 14.3	268 45.8	N 17 55.7	251 24.0	N 21 20.7	329 29.8	S 6 06.0	140 09.6	N 0 50.0	54.2	Castor	245 58.0	N 31 50.2	
03	335 30.3	223 34.6	N 21 54.5	212 28.3	N 21 13.7	283 46.5	N 17 56.1	266 25.9	N 21 20.7	344 32.3	S 6 06.0	154 46.0	N 0 35.9	54.2	Deneb	49 25.7	N 45 21.9	
04	350 32.8	238 34.5	N 21 54.2	227 27.6	N 21 13.1	298 47.1	N 17 56.6	281 27.8	N 21 20.8	359 34.8	S 6 06.1	169 22.4	N 0 21.8	54.2	Denebola	182 25.5	N 14 26.2	
05	5 35.2	253 34.4	N 21 53.8	242 26.8	N 21 12.5	313 47.8	N 17 57.1	296 29.7	N 21 20.9	14 37.3	S 6 06.1	183 58.9	N 0 07.7	54.2				
06	20 37.7	268 34.4	N 21 53.4	257 26.0	N 21 11.9	328 48.5	N 17 57.5	311 31.6	N 21 21.0	29 39.8	S 6 06.1	198 35.3	N 0 06.4	54.2	Diphda	348 47.7	S 17 51.0	
07	35 40.2	283 34.3	N 21 53.1	272 25.3	N 21 11.2	343 49.2	N 17 58.0	326 33.5	N 21 21.0	44 42.3	S 6 06.2	213 11.7	N 0 20.5	54.2	Dubhe	193 41.8	N 61 37.4	
08	50 42.6	298 34.2	N 21 52.7	287 24.5	N 21 10.6	358 49.8	N 17 58.5	341 35.5	N 21 21.1	59 44.9	S 6 06.2	227 48.1	N 0 34.6	54.2	Elnath	278 02.8	N 28 37.7	
09	65 45.1	313 34.1	N 21 52.4	302 23.8	N 21 10.0	13 50.5	N 17 58.9	356 37.4	N 21 21.2	74 47.4	S 6 06.2	242 24.6	N 0 48.7	54.2	Etamin	90 41.8	N 51 29.2	
10	80 47.6	328 34.1	N 21 52.0	317 23.0	N 21 09.4	28 51.2	N 17 59.4	11 39.3	N 21 21.2	89 49.9	S 6 06.3	257 01.0	N 0 34.6	54.2	Enif	33 39.0	N 9 59.2	
11	95 50.0	343 34.0	N 21 51.7	332 22.2	N 21 08.8	43 51.9	N 17 59.8	26 41.2	N 21 21.3	104 52.4	S 6 06.3	271 37.4	N 0 21.8	54.2				
12	110 52.5	358 33.9	N 21 51.3	347 21.5	N 21 08.2	58 52.5	N 18 00.3	41 43.1	N 21 21.4	119 54.9	S 6 06.3	286 13.8	N 1 30.9	54.2	Fomalhaut	15 14.8	S 29 29.4	
13	125 55.0	13 33.8	N 21 50.9	2 20.7	N 21 07.5	73 53.2	N 18 00.7	56 45.1	N 21 21.5	134 57.4	S 6 06.3	300 50.3	N 1 45.0	54.2	Gacrux	171 52.2	S 57 15.3	
14	140 57.4	28 33.8	N 21 50.6	17 19.9	N 21 06.9	88 53.9	N 18 01.2	71 47.0	N 21 21.5	149 59.9	S 6 06.4	315 26.7	N 1 59.1	54.2	Gienah	175 44.1	S 17 40.7	
15	155 59.9	43 33.7	N 21 50.2	32 19.2	N 21 06.3	103 54.6	N 18 01.7	86 48.9	N 21 21.6	165 02.4	S 6 06.4	330 03.1	N 2 13.1	54.2	Hadar	148 36.4	S 60 29.7	
16	171 02.3	58 33.6	N 21 49.9	47 18.4	N 21 05.7	118 55.2	N 18 02.1	101 50.8	N 21 21.7	180 04.9	S 6 06.4	344 39.5	N 2 27.2	54.2	Hamal	327 51.8	N 23 34.6	
17	186 04.8	73 33.5	N 21 49.5	62 17.7	N 21 05.0	133 55.9	N 18 02.6	116 52.7	N 21 21.8	195 07.4	S 6 06.5	359 15.8	N 2 41.2	54.2				
18	201 07.3	88 33.5	N 21 49.1	77 16.9	N 21 04.4	148 56.6	N 18 03.0	131 54.7	N 21 21.8	210 09.9	S 6 06.5	13 52.2	N 2 55.3	54.2	Kaus aust.	83 32.7	S 34 22.4	
19	216 09.7	103 33.4	N 21 48.8	92 16.1	N 21 03.8	163 57.3	N 18 03.5	146 56.6	N 21 21.9	225 12.5	S 6 06.5	28 28.6	N 3 09.3	54.2	Kochab	137 19.1	N 74 03.5	
20	231 12.2	118 33.3	N 21 48.4	107 15.4	N 21 03.2	178 57.9	N 18 03.9	161 58.5	N 21 22.0	240 15.0	S 6 06.6	43 04.9	N 3 23.3	54.2	Markab	13 30.2	N 15 20.1	
21	246 14.7	133 33.2	N 21 48.0	122 14.6	N 21 02.5	193 58.6	N 18 04.4	177 00.4	N 21 22.0	255 17.5	S 6 06.6	57 41.2	N 3 37.3	54.3	Menkar	314 06.8	N 4 11.2	
22	261 17.1	148 33.2	N 21 47.7	137 13.9	N 21 01.9	208 59.3	N 18 04.9	192 02.3	N 21 22.1	270 20.0	S 6 06.6	72 17.5	N 3 51.3	54.3	Menkent	147 58.0	S 36 29.6	
23	276 19.6	163 33.1	N 21 47.3	152 13.1	N 21 01.3	224 00.0	N 18 05.3	207 04.3	N 21 22.2	285 22.5	S 6 06.6	86 53.8	N 4 05.3	54.3				
13 00	291 22.1	178 33.0	N 21 46.9	167 12.4	N 21 00.6	239 00.6	N 18 05.8	222 06.2	N 21 22.3	300 25.0	S 6 06.7	101 30.1	N 4 19.3	54.3	Miaplacidus	221 39.2	S 69 49.2	
01	306 24.5	193 32.9	N 21 46.6	182 11.6	N 21 00.0	254 01.3	N 18 06.2	237 08.1	N 21 22.3	315 27.5	S 6 06.7	116 06.4	N 4 33.3	54.3	Mirf			

LUGLIO 2024 - DOM. 14, LUN. 15, MAR. 16

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	LUGLIO	07					
d h	'	'	'	'	'	'	'	'	'	'	'	'					
14 00	292 21.2	178 31.3	N 21 37.9	166 54.3	N 20 45.2	239 16.8	N 18 16.6	222 52.3	N 21 24.0	301 25.3	S 6 07.4	91 52.0	S 9 49.2	54.5	NOME	360 - AR	Dec.
01	307 23.7	193 31.3	N 21 37.5	181 53.6	N 20 44.5	254 17.5	N 18 17.0	237 54.2	N 21 24.1	316 27.8	S 6 07.5	106 27.5	S 10 02.7	54.5	Acamar	315 12.3	S 40 12.1
02	322 26.1	208 31.2	N 21 37.1	196 52.9	N 20 43.9	269 18.2	N 18 17.5	252 56.2	N 21 24.1	331 30.3	S 6 07.5	121 02.8	S 10 16.1	54.5	Achernar	335 20.6	S 57 06.4
03	337 28.6	223 31.1	N 21 36.8	211 52.1	N 20 43.2	284 18.9	N 18 17.9	267 58.1	N 21 24.2	346 32.8	S 6 07.5	135 38.2	S 10 29.5	54.5	AcruX	173 00.7	S 63 14.4
04	352 31.1	238 31.1	N 21 36.4	226 51.4	N 20 42.5	299 19.5	N 18 18.4	283 00.0	N 21 24.3	1 35.4	S 6 07.6	150 13.4	S 10 42.8	54.5	Adhara	255 06.6	S 29 00.2
05	7 33.5	253 31.0	N 21 36.0	241 50.6	N 20 41.9	314 20.2	N 18 18.8	298 01.9	N 21 24.3	16 37.9	S 6 07.6	164 48.7	S 10 56.1	54.5	Aldebaran	290 40.4	N 16 33.5
06	22 36.0	268 30.9	N 21 35.6	256 49.9	N 20 41.2	329 20.9	N 18 19.3	313 03.9	N 21 24.4	31 40.4	S 6 07.6	179 23.8	S 11 09.4	54.5			
07	37 38.4	283 30.9	N 21 35.2	271 49.1	N 20 40.6	344 21.6	N 18 19.7	328 05.8	N 21 24.5	46 42.9	S 6 07.7	193 58.9	S 11 22.7	54.5	Alioth	166 13.3	N 55 49.9
08	52 40.9	298 30.8	N 21 34.8	286 48.4	N 20 39.9	359 22.2	N 18 20.2	343 07.7	N 21 24.6	61 45.4	S 6 07.7	208 34.0	S 11 35.9	54.6	Alkaid	152 52.2	N 49 11.7
09	67 43.4	313 30.7	N 21 34.4	301 47.7	N 20 39.2	14 22.9	N 18 20.6	358 09.6	N 21 24.6	76 47.9	S 6 07.7	223 09.0	S 11 49.1	54.6	Alnair	27 33.1	S 46 50.3
10	82 45.8	328 30.7	N 21 34.0	316 46.9	N 20 38.6	29 23.6	N 18 21.0	13 11.6	N 21 24.7	91 50.4	S 6 07.8	237 43.9	S 12 02.2	54.6	Alnilam	275 38.5	S 1 11.1
11	97 48.3	343 30.6	N 21 33.7	331 46.2	N 20 37.9	44 24.3	N 18 21.5	28 13.5	N 21 24.8	106 53.0	S 6 07.8	252 18.8	S 12 15.3	54.6	Alphard	217 48.4	S 8 45.9
12	112 50.8	358 30.5	N 21 33.3	346 45.4	N 20 37.2	59 25.0	N 18 21.9	43 15.4	N 21 24.8	121 55.5	S 6 07.8	266 53.6	S 12 28.4	54.6			
13	127 53.2	13 30.5	N 21 32.9	1 44.7	N 20 36.6	74 25.6	N 18 22.4	58 17.3	N 21 24.9	136 58.0	S 6 07.9	281 28.4	S 12 41.4	54.6	Alphecca	126 03.8	N 26 38.1
14	142 55.7	28 30.4	N 21 32.5	16 44.0	N 20 35.9	89 26.3	N 18 22.8	73 19.3	N 21 25.0	152 00.5	S 6 07.9	296 03.0	S 12 54.4	54.7	Alpheratz	357 35.1	N 29 13.4
15	157 58.2	43 30.3	N 21 32.1	31 43.2	N 20 35.2	104 27.0	N 18 23.3	88 21.2	N 21 25.1	167 03.0	S 6 07.9	310 37.7	S 13 07.3	54.7	Altair	62 00.0	N 8 56.0
16	173 00.6	58 30.3	N 21 31.7	46 42.5	N 20 34.5	119 27.7	N 18 23.7	103 23.1	N 21 25.1	182 05.5	S 6 08.0	325 12.2	S 13 20.2	54.7	Ankaa	353 07.5	S 42 10.1
17	188 03.1	73 30.2	N 21 31.3	61 41.8	N 20 33.9	134 28.3	N 18 24.1	118 25.0	N 21 25.2	197 08.1	S 6 08.0	339 46.7	S 13 33.1	54.7	Antares	112 16.0	S 26 29.2
18	203 05.5	88 30.1	N 21 30.9	76 41.0	N 20 33.2	149 29.0	N 18 24.6	133 27.0	N 21 25.3	212 10.6	S 6 08.0	354 21.1	S 13 45.9	54.7			
19	218 08.0	103 30.1	N 21 30.5	91 40.3	N 20 32.5	164 29.7	N 18 25.0	148 28.9	N 21 25.3	227 13.1	S 6 08.1	8 55.5	S 13 58.7	54.7	Arcturus	145 48.2	N 19 03.4
20	233 10.5	118 30.0	N 21 30.1	106 39.5	N 20 31.8	179 30.4	N 18 25.5	163 30.8	N 21 25.4	242 15.6	S 6 08.1	23 29.8	S 14 11.4	54.8	Atria	107 10.1	S 69 04.4
21	248 12.9	133 30.0	N 21 29.7	121 38.8	N 20 31.2	194 31.0	N 18 25.9	178 32.7	N 21 25.5	257 18.1	S 6 08.1	38 04.0	S 14 24.1	54.8	Avior	234 15.6	S 59 35.3
22	263 15.4	148 29.9	N 21 29.3	136 38.1	N 20 30.5	209 31.7	N 18 26.4	193 34.7	N 21 25.5	272 20.6	S 6 08.2	52 38.1	S 14 36.7	54.8	Bellatrix	278 23.6	N 6 22.4
23	278 17.9	163 29.8	N 21 28.9	151 37.3	N 20 29.8	224 32.4	N 18 26.8	208 36.6	N 21 25.6	287 23.2	S 6 08.2	67 12.2	S 14 49.3	54.8	Betelgeuse	270 52.9	N 7 24.7
15 00	293 20.3	178 29.8	N 21 28.5	166 36.6	N 20 29.1	239 33.1	N 18 27.2	223 38.5	N 21 25.7	302 25.7	S 6 08.2	81 46.2	S 15 01.8	54.8	Canopus	263 53.1	S 52 42.4
01	308 22.8	193 29.7	N 21 28.1	181 35.9	N 20 28.4	254 33.7	N 18 27.7	238 40.4	N 21 25.8	317 28.2	S 6 08.3	96 20.1	S 15 14.3	54.8	Capella	280 23.0	N 46 01.3
02	323 25.3	208 29.6	N 21 27.7	196 35.1	N 20 27.8	269 34.4	N 18 28.1	253 42.4	N 21 25.8	332 30.7	S 6 08.3	110 53.9	S 15 26.7	54.9	Castor	245 58.0	N 31 50.2
03	338 27.7	223 29.6	N 21 27.3	211 34.4	N 20 27.1	284 35.1	N 18 28.6	268 44.3	N 21 25.9	347 33.2	S 6 08.3	125 27.7	S 15 39.1	54.9	Deneb	49 25.7	N 45 21.9
04	353 30.2	238 29.5	N 21 26.9	226 33.7	N 20 26.4	299 35.8	N 18 29.0	283 46.2	N 21 26.0	2 35.7	S 6 08.4	140 01.4	S 15 51.4	54.9	Denebola	182 25.5	N 44 26.2
05	8 32.7	253 29.5	N 21 26.5	241 32.9	N 20 25.7	314 36.4	N 18 29.4	298 48.1	N 21 26.0	17 38.3	S 6 08.4	154 35.0	S 16 03.7	54.9			
06	23 35.1	268 29.4	N 21 26.1	256 32.2	N 20 25.0	329 37.1	N 18 29.9	313 50.1	N 21 26.1	32 40.8	S 6 08.4	169 08.5	S 16 15.9	54.9	Diphda	348 47.7	S 17 51.0
07	38 37.6	283 29.3	N 21 25.7	271 31.5	N 20 24.3	344 37.8	N 18 30.3	328 52.0	N 21 26.2	47 43.3	S 6 08.5	183 41.9	S 16 28.1	55.0	Dubhe	193 41.8	N 61 37.4
08	53 40.0	298 29.3	N 21 25.3	286 30.8	N 20 23.6	359 38.5	N 18 30.7	343 53.9	N 21 26.2	62 45.8	S 6 08.5	198 15.3	S 16 40.2	55.0	Elnath	278 02.8	N 28 37.7
09	68 42.5	313 29.2	N 21 24.9	301 30.0	N 20 22.9	14 39.1	N 18 31.2	358 55.9	N 21 26.3	77 48.3	S 6 08.5	212 48.5	S 16 52.2	55.0	Etamin	90 41.8	N 51 29.2
10	83 45.0	328 29.2	N 21 24.5	316 29.3	N 20 22.3	29 39.8	N 18 31.6	13 57.8	N 21 26.4	92 50.9	S 6 08.6	227 21.7	S 17 04.2	55.0	Enif	33 38.9	N 9 59.2
11	98 47.4	343 29.1	N 21 24.1	331 28.6	N 20 21.6	44 40.5	N 18 32.1	28 59.7	N 21 26.5	107 53.4	S 6 08.6	241 54.8	S 17 16.1	55.0			
12	113 49.9	358 29.0	N 21 23.7	346 27.8	N 20 20.9	59 41.2	N 18 32.5	44 01.6	N 21 26.5	122 55.9	S 6 08.6	256 27.8	S 17 28.0	55.1	Fomalhaut	15 14.8	S 29 29.4
13	128 52.4	13 29.0	N 21 23.3	1 27.1	N 20 20.2	74 41.8	N 18 32.9	59 03.6	N 21 26.6	137 58.4	S 6 08.7	271 00.7	S 17 39.8	55.1	Gacrux	171 52.2	S 57 15.3
14	143 54.8	28 28.9	N 21 22.9	16 26.4	N 20 19.5	89 42.5	N 18 33.4	74 05.5	N 21 26.7	153 00.9	S 6 08.7	285 33.6	S 17 51.5	55.1	Gienah	175 44.1	S 17 40.7
15	158 57.3	43 28.9	N 21 22.5	31 25.7	N 20 18.8	104 43.2	N 18 33.8	89 07.4	N 21 26.7	168 03.5	S 6 08.7	300 06.3	S 18 03.2	55.1	Hadar	148 36.4	S 60 29.7
16	173 59.8	58 28.8	N 21 22.1	46 24.9	N 20 18.1	119 43.9	N 18 34.2	104 09.4	N 21 26.8	183 06.0	S 6 08.8	314 39.0	S 18 14.8	55.2	Hamal	327 51.8	N 23 34.6
17	189 02.2	73 28.7	N 21 21.7	61 24.2	N 20 17.4	134 44.5	N 18 34.7	119 11.3	N 21 26.9	198 08.5	S 6 08.8	329 11.5	S 18 26.3	55.2			
18	204 04.7	88 28.7	N 21 21.3	76 23.5	N 20 16.7	149 45.2	N 18 35.1	134 13.2	N 21 26.9	213 11.0	S 6 08.8	343 44.0	S 18 37.8	55.2	Kaus aust.	83 32.7	S 34 22.4
19	219 07.2	103 28.6	N 21 20.8	91 22.8	N 20 16.0	164 45.9	N 18 35.5	149 15.1	N 21 27.0	228 13.5	S 6 08.9	358 16.3	S 18 49.2	55.2	Kochab	137 19.2	N 74 03.5
20	234 09.6	118 28.6	N 21 20.4	106 22.0	N 20 15.3	179 46.6	N 18 36.0	164 17.1	N 21 27.1	243 16.1	S 6 08.9	12 48.6	S 19 00.5	55.3	Markab	13 30.2	N 15 20.2
21	249 12.1	133 28.5	N 21 20.0	121 21.3	N 20 14.6	194 47.2	N 18 36.4	179 19.0	N 21 27.1	258 18.6	S 6 08.9	27 20.8	S 19 11.7	55.3	Menkar	314 06.8	N 4 11.2
22	264 14.5	148 28.5	N 21 19.6	136 20.6	N 20 13.9	209 47.9	N 18 36.8	194 20.9	N 21 27.2	273 21.1	S 6 09.0	41 52.9	S 19 22.9	55.3	Menkent	147 58.0	S 36 29.6
23	279 17.0	163 28.4	N 21 19.2	151 19.9	N 20 13.2	224 48.6	N 18 37.3	209 22.9	N 21 27.3	288 23.6	S 6 09.0	56 24.8	S 19 34.0	55.3			
16 00	294 19.5	178 28.3	N 21 18.8	166 19.2	N 20 12.5	239 49.3	N 18 37.7	224 24.8	N 21 27.4	303 26.1	S 6 09.0	70 56.7	S 19 45.1	55.3	Miaplacidus	221 39.2	S 69 49.2
01	309 21.9	193 28.3	N 21 18.4	181 18.4	N 20 11.8	254 49.9	N 18 38.1	239 26.7	N 21 27.4	318 28.7	S 6 09.1	85 28.5	S 19 56.0	55.4	Mirfak	308 29.2	N 49 56.7
02	324 24.4	208 28.2	N 21 18.0	196 17.7	N 20 11.1	269 50.6	N 18 38.6	254 28.6	N 21 27.5	333 31.2	S 6 09.1	100 20.2	S 20 06.9	55.4	Mizar	158 46.1	N

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	LUGLIO	10
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
17 00	295 18.6	178 27.1	N 21 08.7	166 02.0	N 19 55.3	240 05.5	N 18 48.0	225 11.1	N 21 29.0	304 26.7	S 6 09.9	59 10.4	S 23 44.0	56.0	NOME	360 - AR	Dec.	
01	310 21.1	193 27.0	N 21 08.2	181 01.3	N 19 54.5	255 06.1	N 18 48.4	240 13.1	N 21 29.1	319 29.2	S 6 09.9	73 39.6	S 23 52.7	56.0	Acamar	315 12.3	S 40 12.1	
02	325 23.5	208 27.0	N 21 07.8	196 00.6	N 19 53.8	270 06.8	N 18 48.8	255 15.0	N 21 29.1	334 31.8	S 6 10.0	88 08.7	S 24 01.3	56.1	Achernar	335 20.5	S 57 06.4	
03	340 26.0	223 26.9	N 21 07.4	210 59.9	N 19 53.1	285 07.5	N 18 49.3	270 16.9	N 21 29.2	349 34.3	S 6 10.0	102 37.7	S 24 09.8	56.1	Acruz	173 00.7	S 63 14.4	
04	355 28.5	238 26.9	N 21 07.0	225 59.2	N 19 52.3	300 08.2	N 18 49.7	285 18.9	N 21 29.3	4 36.8	S 6 10.1	117 06.5	S 24 18.2	56.1	Adhara	255 06.6	S 29 00.2	
05	10 30.9	253 26.8	N 21 06.5	240 58.4	N 19 51.6	315 08.8	N 18 50.1	300 20.8	N 21 29.3	19 39.3	S 6 10.1	131 35.3	S 24 26.5	56.2	Aldebaran	290 40.4	N 16 33.5	
06	25 33.4	268 26.8	N 21 06.1	255 57.7	N 19 50.9	330 09.5	N 18 50.5	315 22.7	N 21 29.4	34 41.9	S 6 10.1	146 03.9	S 24 34.7	56.2				
07	40 35.9	283 26.7	N 21 05.7	270 57.0	N 19 50.1	345 10.2	N 18 50.9	330 24.7	N 21 29.5	49 44.4	S 6 10.2	160 32.5	S 24 42.7	56.2	Alioth	166 13.3	N 55 49.9	
08	55 38.3	298 26.7	N 21 05.2	285 56.3	N 19 49.4	0 10.9	N 18 51.4	345 26.6	N 21 29.5	64 46.9	S 6 10.2	175 00.9	S 24 50.7	56.2	Alkaid	152 52.2	N 49 11.7	
09	70 40.8	313 26.6	N 21 04.8	300 55.6	N 19 48.7	15 11.5	N 18 51.8	0 28.5	N 21 29.6	79 49.4	S 6 10.2	189 29.2	S 24 58.5	56.3	Alnair	27 33.1	S 46 50.3	
10	85 43.3	328 26.6	N 21 04.4	315 54.9	N 19 47.9	30 12.2	N 18 52.2	15 30.5	N 21 29.7	94 52.0	S 6 10.3	203 57.4	S 25 06.2	56.3	Alnilam	275 38.5	S 1 11.1	
11	100 45.7	343 26.5	N 21 03.9	330 54.2	N 19 47.2	45 12.9	N 18 52.6	30 32.4	N 21 29.7	109 54.5	S 6 10.3	218 25.4	S 25 13.7	56.3	Alphard	217 48.4	S 8 45.9	
12	115 48.2	358 26.5	N 21 03.5	345 53.5	N 19 46.5	60 13.6	N 18 53.1	45 34.3	N 21 29.8	124 57.0	S 6 10.4	232 53.4	S 25 21.2	56.4				
13	130 50.6	13 26.4	N 21 03.1	0 52.8	N 19 45.7	75 14.2	N 18 53.5	60 36.3	N 21 29.9	139 59.5	S 6 10.4	247 21.3	S 25 28.5	56.4	Alphecca	126 03.8	N 26 38.1	
14	145 53.1	28 26.4	N 21 02.6	15 52.1	N 19 45.0	90 14.9	N 18 53.9	75 38.2	N 21 29.9	155 02.1	S 6 10.4	261 49.0	S 25 35.7	56.4	Alpheratz	357 35.1	N 29 13.4	
15	160 55.6	43 26.3	N 21 02.2	30 51.4	N 19 44.2	105 15.6	N 18 54.3	90 40.1	N 21 30.0	170 04.6	S 6 10.5	276 16.6	S 25 42.7	56.5	Altair	62 00.0	N 8 56.0	
16	175 58.0	58 26.3	N 21 01.7	45 50.7	N 19 43.5	120 16.3	N 18 54.7	105 42.1	N 21 30.1	185 07.1	S 6 10.5	290 44.2	S 25 49.7	56.5	Ankaa	353 07.5	S 42 10.1	
17	191 00.5	73 26.2	N 21 01.3	60 50.0	N 19 42.7	135 16.9	N 18 55.2	120 44.0	N 21 30.1	200 09.6	S 6 10.5	305 11.6	S 25 56.5	56.5	Antares	112 16.0	S 26 29.2	
18	206 03.0	88 26.2	N 21 00.9	75 49.3	N 19 42.0	150 17.6	N 18 55.6	135 45.9	N 21 30.2	215 12.2	S 6 10.6	319 38.9	S 26 03.1	56.6				
19	221 05.4	103 26.1	N 21 00.4	90 48.6	N 19 41.3	165 18.3	N 18 56.0	150 47.9	N 21 30.3	230 14.7	S 6 10.6	334 06.1	S 26 09.7	56.6	Arcturus	145 48.2	N 19 03.4	
20	236 07.9	118 26.1	N 21 00.0	105 47.9	N 19 40.5	180 19.0	N 18 56.4	165 49.8	N 21 30.3	245 17.2	S 6 10.7	348 33.2	S 26 16.1	56.6	Atria	107 10.2	S 69 04.4	
21	251 10.4	133 26.0	N 20 59.5	120 47.2	N 19 39.8	195 19.6	N 18 56.8	180 51.7	N 21 30.4	260 19.8	S 6 10.7	3 00.1	S 26 22.3	56.7	Avior	234 15.6	S 59 35.3	
22	266 12.8	148 26.0	N 20 59.1	135 46.5	N 19 39.0	210 20.3	N 18 57.3	195 53.7	N 21 30.5	275 22.3	S 6 10.7	17 27.0	S 26 28.4	56.7	Bellatrix	278 23.6	N 6 22.4	
23	281 15.3	163 25.9	N 20 58.7	150 45.8	N 19 38.3	225 21.0	N 18 57.7	210 55.6	N 21 30.5	290 24.8	S 6 10.8	31 53.8	S 26 34.4	56.7	Betelgeuse	270 52.9	N 7 24.7	
18 00	296 17.8	178 25.9	N 20 58.2	165 45.1	N 19 37.5	240 21.7	N 18 58.1	225 57.5	N 21 30.6	305 27.3	S 6 10.8	46 20.4	S 26 40.2	56.8	Canopus	263 53.1	S 52 42.4	
01	311 20.2	193 25.9	N 20 57.8	180 44.4	N 19 36.8	255 22.3	N 18 58.5	240 59.5	N 21 30.7	320 29.9	S 6 10.8	60 47.0	S 26 45.9	56.8	Capella	280 22.9	N 46 01.3	
02	326 22.7	208 25.8	N 20 57.3	195 43.7	N 19 36.0	270 23.0	N 18 58.9	256 01.4	N 21 30.7	335 32.4	S 6 10.9	75 13.5	S 26 51.5	56.8	Castor	245 58.0	N 31 50.2	
03	341 25.1	223 25.8	N 20 56.9	210 43.0	N 19 35.2	285 23.7	N 18 59.3	271 03.4	N 21 30.8	350 34.9	S 6 10.9	89 39.8	S 26 56.9	56.9	Deneb	49 25.6	N 45 22.0	
04	356 27.6	238 25.7	N 20 56.4	225 42.3	N 19 34.5	300 24.4	N 18 59.8	286 05.3	N 21 30.9	5 37.5	S 6 11.0	104 06.1	S 27 02.1	56.9	Denebola	182 25.5	N 14 26.2	
05	11 30.1	253 25.7	N 20 56.0	240 41.6	N 19 33.7	315 25.0	N 19 00.2	301 07.2	N 21 30.9	20 40.0	S 6 11.0	118 32.2	S 27 07.2	56.9				
06	26 32.5	268 25.6	N 20 55.5	255 40.9	N 19 33.0	330 25.7	N 19 00.6	316 09.2	N 21 31.0	35 42.5	S 6 11.0	132 58.2	S 27 12.2	56.9	Diphda	348 47.7	S 17 51.0	
07	41 35.0	283 25.6	N 20 55.1	270 40.2	N 19 32.2	345 26.4	N 19 01.0	331 11.1	N 21 31.1	50 45.0	S 6 11.1	147 24.2	S 27 17.0	57.0	Dubhe	193 41.8	N 61 37.4	
08	56 37.5	298 25.5	N 20 54.6	285 39.6	N 19 31.5	0 27.1	N 19 01.4	346 13.0	N 21 31.1	65 47.6	S 6 11.1	161 50.1	S 27 21.7	57.0	Elnath	278 02.7	N 28 37.7	
09	71 39.9	313 25.5	N 20 54.2	300 38.9	N 19 30.7	15 27.7	N 19 01.8	1 15.0	N 21 31.2	80 50.1	S 6 11.1	176 15.8	S 27 26.2	57.0	Etamin	90 41.8	N 51 29.2	
10	86 42.4	328 25.5	N 20 53.7	315 38.2	N 19 29.9	30 28.4	N 19 02.2	16 16.9	N 21 31.3	95 52.6	S 6 11.2	190 41.5	S 27 30.5	57.1	Enif	33 38.9	N 9 59.2	
11	101 44.9	343 25.4	N 20 53.3	330 37.5	N 19 29.2	45 29.1	N 19 02.7	31 18.8	N 21 31.3	110 55.2	S 6 11.2	205 07.0	S 27 34.7	57.1				
12	116 47.3	358 25.4	N 20 52.8	345 36.8	N 19 28.4	60 29.8	N 19 03.1	46 20.8	N 21 31.4	125 57.7	S 6 11.3	219 32.5	S 27 38.7	57.1	Fomalhaut	15 14.7	S 29 29.4	
13	131 49.8	13 25.3	N 20 52.4	0 36.1	N 19 27.6	75 30.4	N 19 03.5	61 22.7	N 21 31.5	141 00.2	S 6 11.3	233 57.9	S 27 42.6	57.2	Gacrux	171 52.2	S 57 15.3	
14	146 52.3	28 25.3	N 20 51.9	15 35.4	N 19 26.9	90 31.1	N 19 03.9	76 24.7	N 21 31.5	156 02.8	S 6 11.3	248 23.2	S 27 46.3	57.2	Gienah	175 44.1	S 17 40.7	
15	161 54.7	43 25.2	N 20 51.5	30 34.7	N 19 26.1	105 31.8	N 19 04.3	91 26.6	N 21 31.6	171 05.3	S 6 11.4	262 48.4	S 27 49.8	57.2	Hadar	148 36.4	S 60 29.7	
16	176 57.2	58 25.2	N 20 51.0	45 34.0	N 19 25.4	120 32.5	N 19 04.7	106 28.5	N 21 31.7	186 07.8	S 6 11.4	277 13.6	S 27 53.2	57.3	Hamal	327 51.8	N 23 34.6	
17	191 59.6	73 25.2	N 20 50.6	60 33.3	N 19 24.6	135 33.1	N 19 05.1	121 30.5	N 21 31.7	201 10.3	S 6 11.5	291 38.6	S 27 56.4	57.3				
18	207 02.1	88 25.1	N 20 50.1	75 32.6	N 19 23.8	150 33.8	N 19 05.5	136 32.4	N 21 31.8	216 12.9	S 6 11.5	306 03.6	S 27 59.5	57.3	Kaus aust.	83 32.6	S 34 22.4	
19	222 04.6	103 25.1	N 20 49.7	90 32.0	N 19 23.0	165 34.5	N 19 06.0	151 34.3	N 21 31.9	231 15.4	S 6 11.5	320 28.4	S 28 02.4	57.4	Kochab	137 19.2	N 74 03.5	
20	237 07.0	118 25.0	N 20 49.2	105 31.3	N 19 22.3	180 35.2	N 19 06.4	166 36.3	N 21 31.9	246 17.9	S 6 11.6	334 53.2	S 28 05.1	57.4	Markab	13 30.1	N 15 20.2	
21	252 09.5	133 25.0	N 20 48.8	120 30.6	N 19 21.5	195 35.8	N 19 06.8	181 38.2	N 21 32.0	261 20.5	S 6 11.6	349 18.0	S 28 07.6	57.4	Menkar	314 06.7	N 4 11.2	
22	267 12.0	148 25.0	N 20 48.3	135 29.9	N 19 20.7	210 36.5	N 19 07.2	196 40.2	N 21 32.1	276 23.0	S 6 11.7	3 42.6	S 28 10.0	57.5	Menkent	147 58.0	S 36 29.6	
23	282 14.4	163 24.9	N 20 47.9	150 29.2	N 19 20.0	225 37.2	N 19 07.6	211 42.1	N 21 32.1	291 25.5	S 6 11.7	18 07.2	S 28 12.2	57.5				
19 00	297 16.9	178 24.9	N 20 47.4	165 28.5	N 19 19.2	240 37.9	N 19 08.0	226 44.0	N 21 32.2	306 28.1	S 6 11.7	32 31.7	S 28 14.2	57.5	Miaplacidus	221 39.3	S 69 49.2	
01	312 19.4	193 24.8	N 20 46.9	180 27.8	N 19 18.4	255 38.5	N 19 08.4	241 46.0	N 21 32.3	321 30.6	S 6 11.8</							

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	LUGLIO	13
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'			
20 00	298 16.0	178 24.0	N 20 36.2	165 12.2	N 19 00.3	240 54.1	N 19 17.7	227 30.6	N 21 33.8	307 28.9	S 6 12.7	18 03.9	S 28 09.3	58.3	NOME	360	- AR	Dec.
01	313 18.5	193 24.0	N 20 35.8	180 11.6	N 18 59.5	255 54.8	N 19 18.1	242 32.6	N 21 33.8	322 31.4	S 6 12.7	32 27.4	S 28 06.8	58.4	Acamar	315 12.2	S 40 12.1	
02	328 21.0	208 23.9	N 20 35.3	195 10.9	N 18 58.7	270 55.4	N 19 18.5	257 34.5	N 21 33.9	337 34.0	S 6 12.8	46 50.8	S 28 04.1	58.4	Achernar	335 20.5	S 57 06.4	
03	343 23.4	223 23.9	N 20 34.8	210 10.2	N 18 57.9	285 56.1	N 19 18.9	272 36.4	N 21 34.0	352 36.5	S 6 12.8	61 14.2	S 28 01.2	58.4	AcruX	173 00.8	S 63 14.4	
04	358 25.9	238 23.9	N 20 34.3	225 09.6	N 18 57.1	300 56.8	N 19 19.4	287 34.8	N 21 34.0	7 39.0	S 6 12.9	75 37.6	S 27 58.2	58.4	Adhara	255 06.6	S 29 00.2	
05	13 28.4	253 23.8	N 20 33.9	240 08.9	N 18 56.3	315 57.5	N 19 19.8	302 40.3	N 21 34.1	22 41.6	S 6 12.9	90 01.0	S 27 54.9	58.5	Aldebaran	290 40.4	N 16 33.5	
06	28 30.8	268 23.8	N 20 33.4	255 08.2	N 18 55.5	330 58.1	N 19 20.2	317 42.3	N 21 34.1	37 44.1	S 6 12.9	104 24.4	S 27 51.5	58.5				
07	43 33.3	283 23.8	N 20 32.9	270 07.5	N 18 54.7	345 58.8	N 19 20.6	332 44.2	N 21 34.2	52 46.6	S 6 13.0	118 47.8	S 27 47.8	58.5	Alioth	166 13.4	N 55 49.9	
08	58 35.7	298 23.7	N 20 32.4	285 06.9	N 18 53.9	0 59.5	N 19 21.0	347 46.1	N 21 34.3	67 49.2	S 6 13.0	133 11.2	S 27 44.0	58.6	Alkaid	152 52.2	N 49 11.7	
09	73 38.2	313 23.7	N 20 32.0	300 06.2	N 18 53.1	16 00.2	N 19 21.3	2 48.1	N 21 34.3	82 51.7	S 6 13.1	147 34.7	S 27 40.0	58.6	Alnair	27 33.0	S 46 50.3	
10	88 40.7	328 23.7	N 20 31.5	315 05.5	N 18 52.3	31 00.8	N 19 21.7	17 50.0	N 21 34.4	97 54.2	S 6 13.1	161 58.1	S 27 35.8	58.6	Alnilam	275 38.4	S 1 11.1	
11	103 43.1	343 23.7	N 20 31.0	330 04.9	N 18 51.5	46 01.5	N 19 22.1	32 52.0	N 21 34.5	112 56.8	S 6 13.2	176 21.5	S 27 31.4	58.7	Alphard	217 48.4	S 8 45.8	
12	118 45.6	358 23.6	N 20 30.5	345 04.2	N 18 50.7	61 02.2	N 19 22.5	47 53.9	N 21 34.5	127 59.3	S 6 13.2	190 45.0	S 27 26.8	58.7				
13	133 48.1	13 23.6	N 20 30.0	0 03.5	N 18 49.9	76 02.9	N 19 22.9	62 55.9	N 21 34.6	143 01.9	S 6 13.2	205 08.4	S 27 22.1	58.7	Alphecca	126 03.9	N 26 38.1	
14	148 50.5	28 23.6	N 20 29.6	15 02.9	N 18 49.1	91 03.5	N 19 23.3	77 57.8	N 21 34.7	158 04.4	S 6 13.3	219 31.9	S 27 17.1	58.7	Alpheratz	357 35.1	N 29 13.4	
15	163 53.0	43 23.5	N 20 29.1	30 02.2	N 18 48.3	106 04.2	N 19 23.7	92 59.8	N 21 34.7	173 06.9	S 6 13.3	233 55.4	S 27 12.0	58.8	Altair	62 00.0	N 8 56.0	
16	178 55.5	58 23.5	N 20 28.6	45 01.6	N 18 47.5	121 04.9	N 19 24.1	108 01.7	N 21 34.8	188 09.5	S 6 13.4	248 18.9	S 27 06.7	58.8	Ankaa	353 07.4	S 42 10.1	
17	193 57.9	73 23.5	N 20 28.1	60 00.9	N 18 46.7	136 05.6	N 19 24.5	123 03.6	N 21 34.8	203 12.0	S 6 13.4	262 42.5	S 27 01.2	58.8	Antares	112 16.1	S 26 29.2	
18	209 00.4	88 23.4	N 20 27.6	75 00.2	N 18 45.8	151 06.2	N 19 24.9	138 05.6	N 21 34.9	218 14.5	S 6 13.4	277 06.0	S 26 55.5	58.9				
19	224 02.9	103 23.4	N 20 27.1	89 59.6	N 18 45.0	166 06.9	N 19 25.3	153 07.5	N 21 35.0	233 17.1	S 6 13.5	291 29.6	S 26 49.7	58.9	Arcturus	145 48.2	N 19 03.4	
20	239 05.3	118 23.4	N 20 26.7	104 58.9	N 18 44.2	181 07.6	N 19 25.7	168 09.5	N 21 35.0	248 19.6	S 6 13.5	305 53.3	S 26 43.6	58.9	Atria	107 10.2	S 69 04.4	
21	254 07.8	133 23.4	N 20 26.2	119 58.2	N 18 43.4	196 08.3	N 19 26.1	183 11.4	N 21 35.1	263 22.2	S 6 13.6	320 16.9	S 26 37.4	58.9	Avior	234 15.6	S 59 35.3	
22	269 10.2	148 23.3	N 20 25.7	134 57.6	N 18 42.6	211 08.9	N 19 26.5	198 13.4	N 21 35.2	278 24.7	S 6 13.6	334 40.6	S 26 31.0	59.0	Bellatrix	278 23.6	N 6 22.4	
23	284 12.7	163 23.3	N 20 25.2	149 56.9	N 18 41.8	226 09.6	N 19 26.9	213 15.3	N 21 35.2	293 27.2	S 6 13.7	349 04.4	S 26 24.4	59.0	Betelgeuse	270 52.8	N 7 24.7	
21 00	299 15.2	178 23.3	N 20 24.7	164 56.3	N 18 40.9	241 10.3	N 19 27.3	228 17.3	N 21 35.3	308 29.8	S 6 13.7	3 28.1	S 26 17.6	59.0	Canopus	263 53.1	S 52 42.4	
01	314 17.6	193 23.2	N 20 24.2	179 55.6	N 18 40.1	256 11.0	N 19 27.7	243 19.2	N 21 35.4	323 32.3	S 6 13.7	17 51.9	S 26 10.7	59.0	Capella	280 22.9	N 46 01.3	
02	329 20.1	208 23.2	N 20 23.7	194 54.9	N 18 39.3	271 11.6	N 19 28.1	258 21.1	N 21 35.4	338 34.9	S 6 13.8	32 15.8	S 26 03.5	59.1	Castor	245 58.0	N 31 50.2	
03	344 22.6	223 23.2	N 20 23.3	209 54.3	N 18 38.5	286 12.3	N 19 28.5	273 23.1	N 21 35.5	353 37.4	S 6 13.8	46 39.7	S 25 56.2	59.1	Deneb	49 25.6	N 45 22.0	
04	359 25.0	238 23.2	N 20 22.8	224 53.6	N 18 37.7	301 13.0	N 19 28.9	288 25.0	N 21 35.5	8 39.9	S 6 13.9	61 03.7	S 25 48.7	59.1	Denebola	182 25.5	N 14 26.2	
05	14 27.5	253 23.1	N 20 22.3	239 53.0	N 18 36.8	316 13.7	N 19 29.3	303 27.0	N 21 35.6	23 42.5	S 6 13.9	75 27.7	S 25 41.1	59.1				
06	29 30.0	268 23.1	N 20 21.8	254 52.3	N 18 36.0	331 14.4	N 19 29.7	318 28.9	N 21 35.7	38 45.0	S 6 14.0	89 51.7	S 25 33.2	59.2	Diphda	348 47.6	S 17 51.0	
07	44 32.4	283 23.1	N 20 21.3	269 51.6	N 18 35.2	346 15.0	N 19 30.1	333 30.9	N 21 35.7	53 47.6	S 6 14.0	104 15.8	S 25 25.2	59.2	Dubhe	193 41.9	N 61 37.4	
08	59 34.9	298 23.1	N 20 20.8	284 51.0	N 18 34.4	1 15.7	N 19 30.4	348 32.8	N 21 35.8	68 50.1	S 6 14.0	118 40.0	S 25 17.0	59.2	Elnath	278 02.7	N 28 37.7	
09	74 37.4	313 23.0	N 20 20.3	299 50.3	N 18 33.5	16 16.4	N 19 30.8	3 34.8	N 21 35.9	83 52.6	S 6 14.1	133 04.2	S 25 08.7	59.2	Etamin	90 41.9	N 51 29.2	
10	89 39.8	328 23.0	N 20 19.8	314 49.7	N 18 32.7	31 17.1	N 19 31.2	18 36.7	N 21 35.9	98 55.2	S 6 14.1	147 28.5	S 25 00.2	59.3	Enif	33 38.9	N 9 59.2	
11	104 42.3	343 23.0	N 20 19.3	329 49.0	N 18 31.9	46 17.7	N 19 31.6	33 38.7	N 21 36.0	113 57.7	S 6 14.2	161 52.8	S 24 51.5	59.3				
12	119 44.7	358 23.0	N 20 18.8	344 48.4	N 18 31.1	61 18.4	N 19 32.0	48 40.6	N 21 36.0	129 00.3	S 6 14.2	176 17.2	S 24 42.6	59.3	Fomalhaut	15 14.7	S 29 29.4	
13	134 47.2	13 22.9	N 20 18.3	359 47.7	N 18 30.2	76 19.1	N 19 32.4	63 42.6	N 21 36.1	144 02.8	S 6 14.2	190 41.7	S 24 33.6	59.3	Gacrux	171 52.3	S 57 15.3	
14	149 49.7	28 22.9	N 20 17.8	14 47.1	N 18 29.4	91 19.8	N 19 32.8	78 44.5	N 21 36.2	159 05.3	S 6 14.3	205 06.2	S 24 24.4	59.4	Gienah	175 44.1	S 17 40.7	
15	164 52.1	43 22.9	N 20 17.4	29 46.4	N 18 28.6	106 20.4	N 19 33.2	93 46.5	N 21 36.2	174 07.9	S 6 14.3	219 30.7	S 24 15.0	59.4	Hadar	148 36.5	S 60 29.7	
16	179 54.6	58 22.9	N 20 16.9	44 45.8	N 18 27.7	121 21.1	N 19 33.6	108 48.4	N 21 36.3	189 10.4	S 6 14.4	233 55.4	S 24 05.5	59.4	Hamal	327 51.7	N 23 34.6	
17	194 57.1	73 22.8	N 20 16.4	59 45.1	N 18 26.9	136 21.8	N 19 34.0	123 50.3	N 21 36.4	204 13.0	S 6 14.4	248 20.1	S 23 55.8	59.4				
18	209 59.5	88 22.8	N 20 15.9	74 44.5	N 18 26.1	151 22.5	N 19 34.3	138 52.3	N 21 36.4	219 15.5	S 6 14.5	262 44.9	S 23 46.0	59.4	Kaus aust.	83 32.6	S 34 22.4	
19	225 02.0	103 22.8	N 20 15.4	89 43.8	N 18 25.2	166 23.1	N 19 34.7	153 54.2	N 21 36.5	234 18.1	S 6 14.5	277 09.7	S 23 36.0	59.5	Kochab	137 19.3	N 74 03.5	
20	240 04.5	118 22.8	N 20 14.9	104 43.2	N 18 24.4	181 23.8	N 19 35.1	168 56.2	N 21 36.5	249 20.6	S 6 14.6	291 34.7	S 23 25.8	59.5	Markab	13 30.1	N 15 20.2	
21	255 06.9	133 22.8	N 20 14.4	119 42.5	N 18 23.6	196 24.5	N 19 35.5	183 58.1	N 21 36.6	264 23.1	S 6 14.6	305 59.7	S 23 15.5	59.5	Menkar	314 06.7	N 4 11.2	
22	270 09.4	148 22.7	N 20 13.9	134 41.9	N 18 22.7	211 25.2	N 19 35.9	199 00.1	N 21 36.6	279 25.7	S 6 14.6	320 24.7	S 23 05.0	59.5	Menkent	147 58.0	S 36 29.6	
23	285 11.9	163 22.7	N 20 13.4	149 41.2	N 18 21.9	226 25.8	N 19 36.3	214 02.0	N 21 36.7	294 28.2	S 6 14.7	334 49.9	S 22 54.4	59.5				
22 00	300 14.3	178 22.7	N 20 12.9	164 40.6	N 18 21.0	241 26.5	N 19 36.7	229 04.0	N 21 36.8	309 30.8	S 6 14.7	349 15.1	S 22 43.6	59.6	Miaplacidus	221 39.3	S 69 49.1	
01	315 16.8	193 22.7	N 20 12.4	179 39.9	N 18 20.2	256 27.2	N 19 37.1	244 05.9	N 21 36.9	324 33.3	S 6 14.							

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	LUGLIO	16
d h	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "
23 00	301 13.5	178 22.2 N 20 00.7	164 25.2 N 18 00.6	241 42.7 N 19 45.9	229 50.8 N 21 38.3	310 31.8 S 6 15.8	335 44.0 S 17 43.3	59.9	NOME	360 - AR	Dec.	
01	316 15.9	193 22.2 N 20 00.2	179 24.5 N 17 59.8	256 43.4 N 19 46.2	244 52.7 N 21 38.3	325 34.4 S 6 15.8	350 11.2 S 17 29.3	59.9	Acamar	315 12.2	S 40 12.1	
02	331 18.4	208 22.2 N 19 59.6	194 23.9 N 17 58.9	271 44.1 N 19 46.0	259 54.7 N 21 38.4	340 36.9 S 6 15.9	4 38.5 S 17 15.1	60.0	Achernar	335 20.5	S 57 06.4	
03	346 20.8	223 22.2 N 19 59.1	209 23.3 N 17 58.1	286 44.8 N 19 47.0	274 56.7 N 21 38.5	355 39.5 S 6 15.9	19 05.9 S 17 00.8	60.0	Acruz	173 00.8	S 63 14.4	
04	1 23.3	238 22.2 N 19 58.6	224 22.6 N 17 57.2	301 45.5 N 19 47.4	289 58.6 N 21 38.5	10 42.0 S 6 16.0	33 33.3 S 16 46.5	60.0	Adhara	255 06.6	S 29 00.2	
05	16 25.8	253 22.2 N 19 58.1	239 22.0 N 17 56.3	316 46.1 N 19 47.7	305 00.6 N 21 38.6	25 44.6 S 6 16.0	48 00.9 S 16 32.0	60.0	Aldebaran	290 40.3	N 16 33.5	
06	31 28.2	268 22.1 N 19 57.6	254 21.4 N 17 55.5	331 46.8 N 19 48.1	320 02.5 N 21 38.6	40 47.1 S 6 16.1	62 28.5 S 16 17.4	60.0				
07	46 30.7	283 22.1 N 19 57.1	269 20.7 N 17 54.6	346 47.5 N 19 48.5	335 04.5 N 21 38.7	55 49.7 S 6 16.1	76 56.2 S 16 02.7	60.0	Alioth	166 13.4	N 55 49.9	
08	61 33.2	298 22.1 N 19 56.5	284 20.1 N 17 53.7	1 48.2 N 19 48.9	350 06.4 N 21 38.8	70 52.2 S 6 16.2	91 23.9 S 15 48.0	60.0	Alkaid	152 52.3	N 49 11.7	
09	76 35.6	313 22.1 N 19 56.0	299 19.5 N 17 52.9	16 48.8 N 19 49.3	5 08.4 N 21 38.8	85 54.7 S 6 16.2	105 51.8 S 15 33.1	60.0	Alnair	27 33.0	S 46 50.4	
10	91 38.1	328 22.1 N 19 55.5	314 18.9 N 17 52.0	31 49.5 N 19 49.6	20 10.3 N 21 38.9	100 57.3 S 6 16.2	120 19.7 S 15 18.1	60.0	Alnilam	275 38.4	S 1 11.1	
11	106 40.6	343 22.1 N 19 55.0	329 18.2 N 17 51.1	46 50.2 N 19 50.0	35 12.3 N 21 38.9	115 59.8 S 6 16.3	134 47.7 S 15 03.1	60.0	Alphard	217 48.4	S 8 45.8	
12	121 43.0	358 22.1 N 19 54.5	344 17.6 N 17 50.3	61 50.9 N 19 50.4	50 14.2 N 21 39.0	131 02.4 S 6 16.3	149 15.8 S 14 48.0	60.0				
13	136 45.5	13 22.1 N 19 53.9	359 17.0 N 17 49.4	76 51.5 N 19 50.8	65 16.2 N 21 39.1	146 04.9 S 6 16.4	163 44.0 S 14 32.7	60.0	Alphecca	126 03.9	N 26 38.1	
14	151 48.0	28 22.0 N 19 53.4	14 16.3 N 17 48.5	91 52.2 N 19 51.1	80 18.1 N 21 39.1	161 07.5 S 6 16.4	178 12.2 S 14 17.4	60.0	Alpheratz	357 35.1	N 29 13.4	
15	166 50.4	43 22.0 N 19 52.9	29 15.7 N 17 47.6	106 52.9 N 19 51.5	95 20.1 N 21 39.2	176 10.0 S 6 16.5	192 40.5 S 14 02.0	60.1	Altair	62 00.0	N 8 56.0	
16	181 52.9	58 22.0 N 19 52.4	44 15.1 N 17 46.8	121 53.6 N 19 51.9	110 22.0 N 21 39.2	191 12.6 S 6 16.5	207 08.9 S 13 46.5	60.1	Ankaa	353 07.4	S 42 10.1	
17	196 55.3	73 22.0 N 19 51.8	59 14.5 N 17 45.9	136 54.3 N 19 52.2	125 24.0 N 21 39.3	206 15.1 S 6 16.6	221 37.3 S 13 31.0	60.1	Antares	112 16.1	S 26 29.2	
18	211 57.8	88 22.0 N 19 51.3	74 13.8 N 17 45.0	151 54.9 N 19 52.6	140 26.0 N 21 39.4	221 17.7 S 6 16.6	236 05.8 S 13 15.4	60.1				
19	227 00.3	103 22.0 N 19 50.8	89 13.2 N 17 44.1	166 55.6 N 19 53.0	155 27.9 N 21 39.4	236 20.2 S 6 16.7	250 34.4 S 12 59.6	60.1	Arcturus	145 48.2	N 19 03.4	
20	242 02.7	118 22.0 N 19 50.3	104 12.6 N 17 43.3	181 56.3 N 19 53.4	170 29.9 N 21 39.5	251 22.8 S 6 16.7	265 03.1 S 12 43.9	60.1	Atria	107 10.2	S 69 04.5	
21	257 05.2	133 22.0 N 19 49.7	119 12.0 N 17 42.4	196 57.0 N 19 53.7	185 31.6 N 21 39.6	266 25.3 S 6 16.8	279 31.8 S 12 28.0	60.1	Avior	234 15.6	S 59 35.3	
22	272 07.7	148 22.0 N 19 49.2	134 11.3 N 17 41.5	211 57.6 N 19 54.1	200 33.8 N 21 39.6	281 27.9 S 6 16.8	294 00.6 S 12 12.1	60.1	Bellatrix	278 23.6	N 6 22.4	
23	287 10.1	163 21.9 N 19 48.7	149 10.7 N 17 40.6	226 58.3 N 19 54.5	215 35.7 N 21 39.7	296 30.4 S 6 16.8	308 29.5 S 11 56.1	60.1	Betelgeuse	270 52.8	N 7 24.8	
24 00	302 12.6	178 21.9 N 19 48.2	164 10.1 N 17 39.7	241 59.0 N 19 54.9	230 37.7 N 21 39.7	311 33.0 S 6 16.9	322 58.4 S 11 40.0	60.1	Canopus	263 53.1	S 52 42.3	
01	317 15.1	193 21.9 N 19 47.6	179 09.5 N 17 38.9	256 59.7 N 19 55.2	245 39.6 N 21 39.8	326 35.5 S 6 16.9	337 27.4 S 11 23.9	60.1	Capella	280 22.9	N 46 01.3	
02	332 17.5	208 21.9 N 19 47.1	194 08.8 N 17 38.0	272 00.3 N 19 55.6	260 41.6 N 21 39.9	341 38.1 S 6 17.0	351 56.5 S 11 07.7	60.1	Castor	245 58.0	N 31 50.1	
03	347 20.0	223 21.9 N 19 46.6	209 08.2 N 17 37.1	287 01.0 N 19 56.0	275 43.6 N 21 39.9	356 40.6 S 6 17.0	6 25.6 S 10 51.4	60.1	Deneb	49 25.6	N 45 22.0	
04	2 22.5	238 21.9 N 19 46.0	224 07.6 N 17 36.2	302 01.7 N 19 56.3	290 45.5 N 21 40.0	11 43.2 S 6 17.1	20 54.8 S 10 35.1	60.1	Denebola	182 25.5	N 14 26.2	
05	17 24.9	253 21.9 N 19 45.5	239 07.0 N 17 35.3	317 02.4 N 19 56.7	305 47.5 N 21 40.0	26 45.7 S 6 17.1	35 24.0 S 10 18.7	60.1				
06	32 27.4	268 21.9 N 19 45.0	254 06.4 N 17 34.4	332 03.1 N 19 57.1	320 49.4 N 21 40.1	41 48.3 S 6 17.2	49 53.3 S 10 02.3	60.1	Diphda	348 47.6	S 17 51.0	
07	47 29.8	283 21.9 N 19 44.4	269 05.7 N 17 33.6	347 03.7 N 19 57.4	335 51.4 N 21 40.1	56 50.8 S 6 17.2	64 22.7 S 9 45.8	60.1	Dubhe	193 41.9	N 61 37.4	
08	62 32.3	298 21.9 N 19 43.9	284 05.1 N 17 32.7	2 04.4 N 19 57.8	350 53.3 N 21 40.2	71 53.4 S 6 17.3	78 52.1 S 9 29.3	60.1	Elnath	278 02.7	N 28 37.7	
09	77 34.8	313 21.9 N 19 43.4	299 04.5 N 17 31.8	17 05.1 N 19 58.2	5 55.3 N 21 40.3	86 55.9 S 6 17.3	93 21.6 S 9 12.7	60.1	Etamin	90 41.9	N 51 29.2	
10	92 37.2	328 21.9 N 19 42.8	314 03.9 N 17 30.9	32 05.8 N 19 58.5	20 57.3 N 21 40.3	101 58.5 S 6 17.4	107 51.1 S 8 56.1	60.1	Enif	33 38.9	N 9 59.2	
11	107 39.7	343 21.8 N 19 42.3	329 03.3 N 17 30.0	47 06.4 N 19 58.9	35 59.2 N 21 40.4	117 01.0 S 6 17.4	122 20.7 S 8 39.4	60.1				
12	122 42.2	358 21.8 N 19 41.8	344 02.7 N 17 29.1	62 07.1 N 19 59.3	51 01.2 N 21 40.4	132 03.6 S 6 17.5	136 50.3 S 8 22.7	60.1	Fomalhaut	15 14.7	S 29 29.4	
13	137 44.6	13 21.8 N 19 41.2	359 02.0 N 17 28.2	77 07.8 N 19 59.7	66 03.1 N 21 40.5	147 06.1 S 6 17.5	151 20.0 S 8 05.9	60.1	Gacrux	171 52.3	S 57 15.3	
14	152 47.1	28 21.8 N 19 40.7	14 01.4 N 17 27.3	92 08.5 N 20 00.0	81 05.1 N 21 40.6	162 08.7 S 6 17.5	165 49.7 S 7 49.1	60.1	Gienah	175 44.1	S 17 40.7	
15	167 49.6	43 21.8 N 19 40.2	29 00.8 N 17 26.4	107 09.1 N 20 00.4	96 07.0 N 21 40.6	177 11.2 S 6 17.6	180 19.5 S 7 32.3	60.1	Hadar	148 36.5	S 60 29.7	
16	182 52.0	58 21.8 N 19 39.6	44 00.2 N 17 25.5	122 09.8 N 20 00.7	111 09.0 N 21 40.7	192 13.8 S 6 17.6	194 49.4 S 7 15.4	60.1	Hamal	327 51.7	N 23 34.6	
17	197 54.5	73 21.8 N 19 39.1	58 59.6 N 17 24.6	137 10.5 N 20 01.1	126 11.0 N 21 40.7	207 16.3 S 6 17.7	209 19.3 S 6 58.5	60.1				
18	212 56.9	88 21.8 N 19 38.6	73 59.0 N 17 23.7	152 11.2 N 20 01.5	141 12.9 N 21 40.8	222 18.9 S 6 17.7	223 49.2 S 6 41.5	60.1	Kaus aust.	83 32.6	S 34 22.4	
19	227 59.4	103 21.8 N 19 38.0	88 58.4 N 17 22.8	167 11.9 N 20 01.8	156 14.9 N 21 40.9	237 21.4 S 6 17.8	238 19.2 S 6 24.5	60.1	Kochab	137 19.3	N 74 03.5	
20	243 01.9	118 21.8 N 19 37.5	103 57.7 N 17 22.0	182 12.5 N 20 02.2	171 16.8 N 21 40.9	252 24.0 S 6 17.8	252 49.2 S 6 07.5	60.1	Markab	13 30.1	N 15 20.2	
21	258 04.3	133 21.8 N 19 36.9	118 57.1 N 17 21.1	197 13.2 N 20 02.6	186 18.8 N 21 41.0	267 26.5 S 6 17.9	267 19.2 S 5 50.5	60.0	Menkar	314 06.7	N 4 11.2	
22	273 06.8	148 21.8 N 19 36.4	133 56.5 N 17 20.2	212 13.9 N 20 02.9	201 20.7 N 21 41.0	282 29.1 S 6 17.9	281 49.3 S 5 33.4	60.0	Menkent	147 58.0	S 36 29.6	
23	288 09.3	163 21.8 N 19 35.9	148 55.9 N 17 19.3	227 14.6 N 20 03.3	216 22.7 N 21 41.1	297 31.6 S 6 18.0	296 19.5 S 5 16.3	60.0				
25 00	303 11.7	178 21.8 N 19 35.3	163 55.3 N 17 18.4	242 15.2 N 20 03.7	231 24.7 N 21 41.2	312 34.2 S 6 18.0	310 49.7 S 4 59.2	60.0	Miaplacidus	221 39.3	S 69 49.1	
01	318 14.2	193 21.8 N 19 34.8	178 54.7 N 17 17.5	257 15.9 N 20 04.0	246 26.6 N 21 41.2	327 36.8 S 6 18.1	325 19.9 S 4 42.0	60.0	Mirfak	308 29.1	N 49 56.7	
02	333 16.7	208 21.8 N 19 34.2	193 54.1 N 17 16.6	272 16.6 N 20 04.4	261 28.6 N 21 41.3	342 39.3 S 6 18.1	339 50.1 S 4 24.9	60.0	Mizar	158 46.2	N 54 48.1	
03	348 19.1	223 21.8 N 19 33.7	208 53.5 N 17 15.6	287 17.3 N 20 04.8	276 30.5 N 21 41.3	357 41.9 S 6 18.2	354 20.4 S 4 07.7	60.0	Nunki	75 47.9	S 26 16.0	
04	3 21.6	238 21.8 N 19 33.1	223 52.9 N 17 14.7	302 18.0 N 20 05.1	291 32.5 N 21 41.4	12 44.4 S 6 18.2	8 50.7 S 3 50.5	60.0	Peacock	53 05.7	S 56 39.3	
05	18 24.1	253 21.8 N 19 32.6	238 52.3 N 17 13.8	317 18.6 N 20 05.5	306 34.5 N 21 41.5	27 47.0 S 6 18.3	23 21.1 S 3 33.3	60.0	Polaris	314 26.4	N 89 21.7	
06	33 26.5	268 21.8 N 19 32.0	253 51.6 N 17 12.9	332 19.3 N 20 05.8	321 36.4 N 21 41.5	42 49.5 S 6 18.3	37 51.5 S 3 16.0	60.0	Pollux	243 18.2	N 27 58.1	
07	48 29.0	283 21.8 N 19 31.5	268 51.0 N 17 12.0	347 20.0 N 20 06.2	336 38.4 N 21 41.6	57 52.1 S 6 18.4	52 21.9 S 2 58.8	60.0	Procyon	244 51.6	N 5 09.8	
08	63 31.4	298 21.8 N 19 31.0	283 50.4 N 17 11.1	2 20.7 N 20 06.6	351 40.3 N 21 41.6	72 54.6 S 6 18.4	66 52.3 S 2 41.5	60.0	Rasalhague	95 58.6	N 12 32.6	
09												

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	LUGLIO	19
d h	' °	' °	' °	' °	' °	' °	' °	' °	' °			
26 00	304 10.9	178 21.8 N 19 22.1	163 40.8 N 16 56.5	242 31.5 N 20 12.3	232 11.7 N 21 42.6	313 35.5 S 6 19.2	299 01.9 N 1 54.4	59.8	NOME	360	- AR	Dec.
01	319 13.3	193 21.8 N 19 21.6	178 40.2 N 16 55.6	257 32.2 N 20 12.6	247 13.7 N 21 42.6	328 38.1 S 6 19.2	313 32.6 N 2 11.6	59.8	Acamar	315	12.2	S 40 12.1
02	334 15.8	208 21.8 N 19 21.0	193 39.6 N 16 54.7	272 32.9 N 20 13.0	262 15.7 N 21 42.7	343 40.6 S 6 19.3	328 03.3 N 2 28.8	59.8	Achernar	335	20.4	S 57 06.4
03	349 18.3	223 21.8 N 19 20.5	208 39.0 N 16 53.7	287 33.5 N 20 13.4	277 17.6 N 21 42.7	358 43.2 S 6 19.3	342 34.0 N 2 45.9	59.8	Acruz	173	00.8	S 63 14.4
04	4 20.7	238 21.8 N 19 19.9	223 38.4 N 16 52.8	302 34.2 N 20 13.7	292 19.6 N 21 42.8	13 45.7 S 6 19.4	357 04.7 N 3 03.0	59.8	Adhara	255	06.6	S 29 00.2
05	19 23.2	253 21.8 N 19 19.3	238 37.8 N 16 51.9	317 34.9 N 20 14.1	307 21.5 N 21 42.8	28 48.3 S 6 19.4	11 35.4 N 3 20.1	59.7	Aldebaran	290	40.3	N 16 33.5
06	34 25.7	268 21.8 N 19 18.8	253 37.2 N 16 51.0	332 35.6 N 20 14.4	322 23.5 N 21 42.9	43 50.8 S 6 19.5	26 06.2 N 3 37.1	59.7				
07	49 28.1	283 21.8 N 19 18.2	268 36.6 N 16 50.0	347 36.3 N 20 14.8	337 25.5 N 21 43.0	58 53.4 S 6 19.5	40 36.9 N 3 54.1	59.7	Alioth	166	13.4	N 55 49.9
08	64 30.6	298 21.8 N 19 17.7	283 36.0 N 16 49.1	2 36.9 N 20 15.1	352 27.4 N 21 43.0	73 56.0 S 6 19.6	55 07.5 N 4 11.1	59.7	Alkaid	152	52.3	N 49 11.7
09	79 33.0	313 21.8 N 19 17.1	298 35.4 N 16 48.2	17 37.6 N 20 15.5	7 29.4 N 21 43.1	88 58.5 S 6 19.6	69 38.2 N 4 28.1	59.7	Alnair	27	33.0	S 46 50.4
10	94 35.5	328 21.8 N 19 16.5	313 34.9 N 16 47.3	32 38.3 N 20 15.8	22 31.4 N 21 43.1	104 01.1 S 6 19.7	84 08.9 N 4 45.0	59.7	Alnilam	275	38.4	S 1 11.1
11	109 38.0	343 21.8 N 19 16.0	328 34.3 N 16 46.4	47 39.0 N 20 16.2	37 33.3 N 21 43.2	119 03.6 S 6 19.7	98 39.6 N 5 01.9	59.7	Alphard	217	48.4	S 8 45.8
12	124 40.4	358 21.8 N 19 15.4	343 33.7 N 16 45.4	62 39.6 N 20 16.5	52 35.3 N 21 43.2	134 06.2 S 6 19.8	113 10.2 N 5 18.8	59.6				
13	139 42.9	13 21.8 N 19 14.9	358 33.1 N 16 44.5	77 40.3 N 20 16.9	67 37.3 N 21 43.3	149 08.7 S 6 19.8	127 40.9 N 5 35.6	59.6	Alphecca	126	03.9	N 26 38.1
14	154 45.4	28 21.8 N 19 14.3	13 32.5 N 16 43.5	92 41.0 N 20 17.2	82 39.2 N 21 43.4	164 11.3 S 6 19.9	142 11.5 N 5 52.4	59.6	Alpheratz	357	35.0	N 29 13.4
15	169 47.8	43 21.8 N 19 13.7	28 31.9 N 16 42.6	107 41.7 N 20 17.6	97 41.2 N 21 43.4	179 13.9 S 6 19.9	156 42.2 N 6 09.2	59.6	Altair	62	00.0	N 8 56.0
16	184 50.3	58 21.8 N 19 13.2	43 31.3 N 16 41.7	122 42.4 N 20 17.9	112 43.2 N 21 43.5	194 16.4 S 6 20.0	171 12.8 N 6 25.9	59.6	Ankaa	353	07.4	S 42 10.1
17	199 52.8	73 21.8 N 19 12.6	58 30.7 N 16 40.7	137 43.0 N 20 18.3	127 45.1 N 21 43.5	209 19.0 S 6 20.0	185 43.4 N 6 42.6	59.6	Antares	112	16.1	S 26 29.2
18	214 55.2	88 21.8 N 19 12.0	73 30.1 N 16 39.8	152 43.7 N 20 18.6	142 47.1 N 21 43.6	224 21.5 S 6 20.1	200 13.9 N 6 59.2	59.5				
19	229 57.7	103 21.9 N 19 11.5	88 29.5 N 16 38.9	167 44.4 N 20 19.0	157 49.1 N 21 43.6	239 24.1 S 6 20.1	214 44.5 N 7 15.8	59.5	Arcturus	145	48.2	N 19 03.4
20	245 00.2	118 21.9 N 19 10.9	103 29.0 N 16 37.9	182 45.1 N 20 19.3	172 51.0 N 21 43.7	254 26.7 S 6 20.2	229 15.0 N 7 32.3	59.5	Atria	107	10.2	S 69 04.5
21	260 02.6	133 21.9 N 19 10.3	118 28.4 N 16 37.0	197 45.8 N 20 19.7	187 53.0 N 21 43.8	269 29.2 S 6 20.2	243 45.5 N 7 48.8	59.5	Avior	234	15.6	S 59 35.3
22	275 05.1	148 21.9 N 19 09.8	133 27.8 N 16 36.1	212 46.4 N 20 20.0	202 55.0 N 21 43.8	284 31.8 S 6 20.3	258 16.0 N 8 05.2	59.5	Bellatrix	278	23.6	N 6 22.4
23	290 07.5	163 21.9 N 19 09.2	148 27.2 N 16 35.1	227 47.1 N 20 20.4	217 56.9 N 21 43.9	299 34.3 S 6 20.3	272 46.5 N 8 21.6	59.5	Betelgeuse	270	52.8	N 7 24.8
27 00	305 10.0	178 21.9 N 19 08.6	163 26.6 N 16 34.2	242 47.8 N 20 20.7	232 58.9 N 21 43.9	314 36.9 S 6 20.4	287 16.9 N 8 38.0	59.4	Canopus	263	53.1	S 52 42.3
01	320 12.5	193 21.9 N 19 08.1	178 26.0 N 16 33.2	257 48.5 N 20 21.1	248 00.9 N 21 44.0	329 39.5 S 6 20.4	301 47.4 N 8 54.2	59.4	Capella	280	22.9	N 46 01.3
02	335 14.9	208 21.9 N 19 07.5	193 25.4 N 16 32.3	272 49.1 N 20 21.4	263 02.8 N 21 44.0	344 42.0 S 6 20.5	316 17.7 N 9 10.5	59.4	Castor	245	58.0	N 31 50.1
03	350 17.4	223 21.9 N 19 06.9	208 24.9 N 16 31.4	287 49.8 N 20 21.8	278 04.8 N 21 44.1	359 44.6 S 6 20.5	330 48.1 N 9 26.6	59.4	Deneb	49	25.6	N 45 22.0
04	5 19.9	238 21.9 N 19 06.4	223 24.3 N 16 30.4	302 50.5 N 20 22.1	293 06.8 N 21 44.2	14 47.1 S 6 20.6	345 18.4 N 9 42.7	59.4	Denebola	182	25.5	N 44 26.2
05	20 22.3	253 21.9 N 19 05.8	238 23.7 N 16 29.5	317 51.2 N 20 22.5	308 08.7 N 21 44.2	29 49.7 S 6 20.6	359 48.7 N 9 58.8	59.4				
06	35 24.8	268 21.9 N 19 05.2	253 23.1 N 16 28.5	332 51.9 N 20 22.8	323 10.7 N 21 44.3	44 52.3 S 6 20.7	14 19.0 N 10 14.8	59.3	Diphda	348	47.6	S 17 51.0
07	50 27.3	283 22.0 N 19 04.6	268 22.5 N 16 27.6	347 52.5 N 20 23.2	338 12.7 N 21 44.3	59 54.8 S 6 20.7	28 49.2 N 10 30.7	59.3	Dubhe	193	41.9	N 61 37.4
08	65 29.7	298 22.0 N 19 04.1	283 21.9 N 16 26.6	2 53.2 N 20 23.5	353 14.6 N 21 44.4	74 57.4 S 6 20.8	43 19.4 N 10 46.6	59.3	Elnath	278	02.7	N 28 37.7
09	80 32.2	313 22.0 N 19 03.5	298 21.4 N 16 25.7	17 53.9 N 20 23.8	8 16.6 N 21 44.4	89 59.9 S 6 20.8	57 49.6 N 11 02.3	59.3	Etamin	90	41.9	N 51 29.2
10	95 34.6	328 22.0 N 19 02.9	313 20.8 N 16 24.7	32 54.6 N 20 24.2	23 18.6 N 21 44.5	105 02.5 S 6 20.9	72 19.7 N 11 18.1	59.3	Enif	33	38.9	N 9 59.3
11	110 37.1	343 22.0 N 19 02.3	328 20.2 N 16 23.8	47 55.3 N 20 24.5	38 20.5 N 21 44.5	120 05.1 S 6 20.9	86 49.8 N 11 33.7	59.2				
12	125 39.6	358 22.0 N 19 01.8	343 19.6 N 16 22.9	62 55.9 N 20 24.9	53 22.5 N 21 44.6	135 07.6 S 6 21.0	101 19.8 N 11 49.3	59.2	Fomalhaut	15	14.7	S 29 29.4
13	140 42.0	13 22.0 N 19 01.2	358 19.0 N 16 21.9	77 56.6 N 20 25.2	68 24.5 N 21 44.7	150 10.2 S 6 21.0	115 49.8 N 12 04.8	59.2	Gacrux	171	52.3	S 57 15.3
14	155 44.5	28 22.0 N 19 00.6	13 18.5 N 16 21.0	92 57.3 N 20 25.6	83 26.4 N 21 44.7	165 12.7 S 6 21.1	130 19.8 N 12 20.3	59.2	Gienah	175	44.1	S 17 40.7
15	170 47.0	43 22.0 N 19 00.0	28 17.9 N 16 20.0	107 58.0 N 20 25.9	98 28.4 N 21 44.8	180 15.3 S 6 21.1	144 49.7 N 12 35.6	59.2	Hadar	148	36.5	S 60 29.7
16	185 49.4	58 22.1 N 18 59.5	43 17.3 N 16 19.1	122 58.7 N 20 26.2	113 30.4 N 21 44.8	195 17.9 S 6 21.2	159 19.6 N 12 50.9	59.2	Hamal	327	51.7	N 23 34.6
17	200 51.9	73 22.1 N 18 58.9	58 16.7 N 16 18.1	137 59.3 N 20 26.6	128 32.3 N 21 44.9	210 20.4 S 6 21.2	173 49.5 N 13 06.1	59.1				
18	215 54.4	88 22.1 N 18 58.3	73 16.2 N 16 17.1	153 00.0 N 20 26.9	143 34.3 N 21 44.9	225 23.0 S 6 21.3	188 19.2 N 13 21.3	59.1	Kaus aust.	83	32.6	S 34 22.4
19	230 56.8	103 22.1 N 18 57.7	88 15.6 N 16 16.2	168 00.7 N 20 27.3	158 36.3 N 21 45.0	240 25.6 S 6 21.3	202 49.0 N 13 36.3	59.1	Kochab	137	19.4	N 74 03.5
20	245 59.3	118 22.1 N 18 57.1	103 15.0 N 16 15.2	183 01.4 N 20 27.6	173 38.2 N 21 45.1	255 28.1 S 6 21.4	217 18.7 N 13 51.3	59.1	Markab	13	30.1	N 15 20.2
21	261 01.8	133 22.1 N 18 56.6	118 14.4 N 16 14.3	198 02.1 N 20 28.0	188 40.2 N 21 45.1	270 30.7 S 6 21.4	231 48.3 N 14 06.2	59.1	Menkar	314	06.7	N 4 11.2
22	276 04.2	148 22.1 N 18 56.0	133 13.9 N 16 13.3	213 02.7 N 20 28.3	203 42.2 N 21 45.2	285 33.2 S 6 21.5	246 17.9 N 14 21.0	59.0	Menkent	147	58.0	S 36 29.6
23	291 06.7	163 22.2 N 18 55.4	148 13.3 N 16 12.4	228 03.4 N 20 28.6	218 44.2 N 21 45.2	300 35.8 S 6 21.5	260 47.5 N 14 35.7	59.0				
28 00	306 09.1	178 22.2 N 18 54.8	163 12.7 N 16 11.4	243 04.1 N 20 29.0	233 46.1 N 21 45.3	315 38.4 S 6 21.6	275 17.0 N 14 50.4	59.0	Miaplacidus	221	39.3	S 69 49.1
01	321 11.6	193 22.2 N 18 54.2	178 12.1 N 16 10.5	258 04.8 N 20 29.3	248 48.1 N 21 45.3	330 40.9 S 6 21.6	289 46.4 N 15 04.9	59.0	Mirfak	308	29.1	N 49 56.7
02	336 14.1	208 22.2 N 18 53.7	193 11.6 N 16 09.5	273 05.5 N 20 29.7	263 50.1 N 21 45.4	345 43.5 S 6 21.7	304 15.8 N 15 19.4	59.0	Mizar	158	46.2	N 54 48.1
03	351 16.5	223 22.2 N 18 53.1	208 11.0 N 16 08.5	288 06.1 N 20 30.0	278 52.0 N 21 45.4	0 46.1 S 6 21.8	318 45.2 N 15 33.7	58.9	Nunki	75	47.9	S 26 16.0
04	6 19.0	238 22.2 N 18 52.5	223 10.4 N 16 07.6	303 06.8 N 20 30.3	293 54.0 N 21 45.5	15 48.6 S 6 21.8	333 14.5 N 15 48.0	58.9	Peacock	53	05.7	S 56 39.3
05	21 21.5	253 22.2 N 18 51.9	238 09.8 N 16 06.6	318 07.5 N 20 30.7	308 56.0 N 21 45.6	30 51.2 S 6 21.9	347 43.7 N 16 02.2	58.9	Polaris	314	24.7	N 89 21.7
06	36 23.9	268 22.2 N 18 51.3	253 09.3 N 16 05.7	333 08.2 N 20 31.0	323 58.0 N 21 45.6	45 53.7 S 6 21.9	2 12.9 N 16 16.3	58.9	Pollux	243	18.2	N 27 58.1
07	51 26.4	283 22.3 N 18 50.7	268 08.7 N 16 04.7	348 08.9 N 20 31.3	338 59.9 N 21 45.7	60 56.3 S 6 22.0	16 42.0 N 16 30.3	58.9	Procyon	244	51.6	N 5 09.8
08	66 28.9	298 22.3 N 18 50.1	283 08.1 N 16 03.7	3 09.5 N 20 31.7	354 01.9 N 21 45.7	75 58.9 S 6 22.0	31 11.1 N 16 44.2	58.8	Rasalhague	95	58.6	N 12 32.6
09												

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	LUGLIO	22
d h	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	'				
29 00	307 08.3	178 22.6	N 18 40.7	162 59.1	N 15 48.2	243 20.4	N 20 37.0	234 33.5	N 21 46.6	316 39.9	S 6 22.9	262 47.9	N 20 12.0	58.5	NOME	360	- AR	Dec.
01	322 10.7	193 22.6	N 18 40.1	177 58.5	N 15 47.2	258 21.1	N 20 37.4	249 35.4	N 21 46.6	331 42.5	S 6 22.9	277 15.9	N 20 24.0	58.5	Acamar	315 12.2	S 40 12.1	
02	337 13.2	208 22.6	N 18 39.5	192 58.0	N 15 46.3	273 21.8	N 20 37.7	264 37.4	N 21 46.7	346 45.0	S 6 23.0	291 43.8	N 20 35.9	58.5	Achernar	335 20.4	S 57 06.4	
03	352 15.7	223 22.7	N 18 38.9	207 57.4	N 15 45.3	288 22.5	N 20 38.0	279 39.4	N 21 46.8	1 47.6	S 6 23.0	306 11.7	N 20 47.7	58.4	Acruz	173 00.8	S 63 14.4	
04	7 18.1	238 22.7	N 18 38.3	222 56.9	N 15 44.3	303 23.1	N 20 38.4	294 41.4	N 21 46.8	16 50.2	S 6 23.1	320 39.5	N 20 59.3	58.4	Adhara	255 06.5	S 29 00.2	
05	22 20.6	253 22.7	N 18 37.7	237 56.3	N 15 43.3	318 23.8	N 20 38.7	309 43.3	N 21 46.9	31 52.7	S 6 23.1	335 07.3	N 21 10.9	58.4	Aldebaran	290 40.3	N 16 33.5	
06	37 23.1	268 22.7	N 18 37.1	252 55.7	N 15 42.3	333 24.5	N 20 39.0	324 45.3	N 21 46.9	46 55.3	S 6 23.2	349 35.0	N 21 22.3	58.4				
07	52 25.5	283 22.7	N 18 36.5	267 55.2	N 15 41.4	348 25.2	N 20 39.3	339 47.3	N 21 47.0	61 57.9	S 6 23.2	4 02.6	N 21 33.6	58.3	Alioth	166 13.4	N 55 49.9	
08	67 28.0	298 22.8	N 18 35.9	282 54.6	N 15 40.4	3 25.9	N 20 39.7	354 49.3	N 21 47.0	77 00.4	S 6 23.3	18 30.2	N 21 44.7	58.3	Alkaid	152 52.3	N 49 11.7	
09	82 30.5	313 22.8	N 18 35.3	297 54.1	N 15 39.4	18 26.5	N 20 40.0	9 51.2	N 21 47.1	92 03.0	S 6 23.3	32 57.7	N 21 55.7	58.3	Alnair	27 33.0	S 46 50.4	
10	97 32.9	328 22.8	N 18 34.7	312 53.5	N 15 38.4	33 27.2	N 20 40.3	24 53.2	N 21 47.1	107 05.6	S 6 23.4	47 25.1	N 22 06.6	58.3	Alnilam	275 38.4	S 1 11.1	
11	112 35.4	343 22.8	N 18 34.1	327 53.0	N 15 37.4	48 27.9	N 20 40.7	39 55.2	N 21 47.2	122 08.1	S 6 23.4	61 52.5	N 22 17.3	58.3	Alphard	217 48.4	S 8 45.8	
12	127 37.9	358 22.9	N 18 33.5	342 52.4	N 15 36.4	63 28.6	N 20 41.0	54 57.2	N 21 47.2	137 10.7	S 6 23.5	76 19.8	N 22 28.0	58.2				
13	142 40.3	13 22.9	N 18 32.9	357 51.8	N 15 35.5	78 29.3	N 20 41.3	69 59.1	N 21 47.3	152 13.3	S 6 23.5	90 47.0	N 22 38.4	58.2	Alphecca	126 03.9	N 26 38.1	
14	157 42.8	28 22.9	N 18 32.3	12 51.3	N 15 34.5	93 30.0	N 20 41.6	85 01.1	N 21 47.4	167 15.8	S 6 23.6	105 14.2	N 22 48.8	58.2	Alpheratz	357 35.0	N 29 13.5	
15	172 45.2	43 22.9	N 18 31.7	27 50.7	N 15 33.5	108 30.6	N 20 42.0	100 03.1	N 21 47.4	182 18.4	S 6 23.6	119 41.3	N 22 59.0	58.2	Altair	62 00.0	N 8 56.0	
16	187 47.7	58 23.0	N 18 31.1	42 50.2	N 15 32.5	123 31.3	N 20 42.3	115 05.1	N 21 47.5	197 21.0	S 6 23.7	134 08.3	N 23 09.1	58.1	Ankaa	353 07.4	S 42 10.1	
17	202 50.2	73 23.0	N 18 30.5	57 49.6	N 15 31.5	138 32.0	N 20 42.6	130 07.0	N 21 47.5	212 23.6	S 6 23.8	148 35.3	N 23 19.0	58.1	Antares	112 16.1	S 26 29.2	
18	217 52.6	88 23.0	N 18 29.9	72 49.1	N 15 30.5	153 32.7	N 20 42.9	145 09.0	N 21 47.6	227 26.1	S 6 23.8	163 02.2	N 23 28.8	58.1				
19	232 55.1	103 23.0	N 18 29.3	87 48.5	N 15 29.5	168 33.4	N 20 43.3	160 11.0	N 21 47.6	242 28.7	S 6 23.9	177 29.1	N 23 38.4	58.1	Arcturus	145 48.2	N 19 03.4	
20	247 57.6	118 23.1	N 18 28.7	102 48.0	N 15 28.5	183 34.0	N 20 43.6	175 13.0	N 21 47.7	257 31.3	S 6 23.9	191 55.9	N 23 48.0	58.1	Atria	107 10.2	S 69 04.5	
21	263 00.0	133 23.1	N 18 28.1	117 47.4	N 15 27.5	198 34.7	N 20 43.9	190 15.0	N 21 47.7	272 33.8	S 6 24.0	206 22.6	N 23 57.3	58.0	Avior	234 15.6	S 59 35.2	
22	278 02.5	148 23.1	N 18 27.5	132 46.9	N 15 26.6	213 35.4	N 20 44.2	205 16.9	N 21 47.8	287 36.4	S 6 24.0	220 49.3	N 24 06.5	58.0	Bellatrix	278 23.6	N 6 22.4	
23	293 05.0	163 23.1	N 18 26.9	147 46.3	N 15 25.6	228 36.1	N 20 44.6	220 18.9	N 21 47.8	302 39.0	S 6 24.1	235 15.9	N 24 15.6	58.0	Betelgeuse	270 52.8	N 7 24.8	
30 00	308 07.4	178 23.2	N 18 26.3	162 45.8	N 15 24.6	243 36.8	N 20 44.9	235 20.9	N 21 47.9	317 41.5	S 6 24.1	249 42.4	N 24 24.5	58.0	Canopus	263 53.1	S 52 42.3	
01	323 09.9	193 23.2	N 18 25.6	177 45.2	N 15 23.6	258 37.5	N 20 45.2	250 22.9	N 21 47.9	332 44.1	S 6 24.2	264 08.9	N 24 33.3	57.9	Capella	280 22.8	N 46 01.3	
02	338 12.4	208 23.2	N 18 25.0	192 44.7	N 15 22.6	273 38.1	N 20 45.5	265 24.8	N 21 48.0	347 46.7	S 6 24.2	278 35.4	N 24 41.9	57.9	Castor	245 57.9	N 31 50.1	
03	353 14.8	223 23.2	N 18 24.4	207 44.1	N 15 21.6	288 38.8	N 20 45.9	280 26.8	N 21 48.0	2 49.2	S 6 24.3	293 01.7	N 24 50.4	57.9	Deneb	49 25.6	N 45 22.0	
04	8 17.3	238 23.3	N 18 23.8	222 43.6	N 15 20.6	303 39.5	N 20 46.2	295 28.8	N 21 48.1	17 51.8	S 6 24.4	307 28.1	N 24 58.8	57.9	Denebola	182 25.5	N 14 26.2	
05	23 19.7	253 23.3	N 18 23.2	237 43.0	N 15 19.6	318 40.2	N 20 46.5	310 30.8	N 21 48.2	32 54.4	S 6 24.4	321 54.3	N 25 06.9	57.9				
06	38 22.2	268 23.3	N 18 22.6	252 42.5	N 15 18.6	333 40.9	N 20 46.8	325 32.8	N 21 48.2	47 57.0	S 6 24.5	336 20.5	N 25 15.0	57.8	Diphda	348 47.6	S 17 51.0	
07	53 24.7	283 23.4	N 18 22.0	267 41.9	N 15 17.6	348 41.5	N 20 47.2	340 34.7	N 21 48.3	62 59.5	S 6 24.5	350 46.7	N 25 22.8	57.8	Dubhe	193 41.9	N 61 37.4	
08	68 27.1	298 23.4	N 18 21.4	282 41.4	N 15 16.6	3 42.2	N 20 47.5	355 36.7	N 21 48.3	78 02.1	S 6 24.6	5 12.8	N 25 30.5	57.8	Elnath	278 02.7	N 28 37.7	
09	83 29.6	313 23.4	N 18 20.8	297 40.9	N 15 15.6	18 42.9	N 20 47.8	10 38.7	N 21 48.4	93 04.7	S 6 24.6	19 38.9	N 25 38.1	57.8	Etamin	90 41.9	N 51 29.2	
10	98 32.1	328 23.4	N 18 20.1	312 40.3	N 15 14.6	33 43.6	N 20 48.1	25 40.7	N 21 48.4	108 07.2	S 6 24.7	34 04.9	N 25 45.5	57.8	Enif	33 38.9	N 9 59.3	
11	113 34.5	343 23.5	N 18 19.5	327 39.8	N 15 13.6	48 44.3	N 20 48.4	40 42.7	N 21 48.5	123 09.8	S 6 24.7	48 30.8	N 25 52.8	57.7				
12	128 37.0	358 23.5	N 18 18.9	342 39.2	N 15 12.6	63 45.0	N 20 48.8	55 44.6	N 21 48.5	138 12.4	S 6 24.8	62 56.7	N 25 59.9	57.7	Fomalhaut	15 14.7	S 29 29.4	
13	143 39.5	13 23.5	N 18 18.3	357 38.7	N 15 11.6	78 45.6	N 20 49.1	70 46.6	N 21 48.6	153 14.9	S 6 24.8	77 22.6	N 26 06.8	57.7	Gacrux	171 52.3	S 57 15.3	
14	158 41.9	28 23.6	N 18 17.7	12 38.1	N 15 10.6	93 46.3	N 20 49.4	85 48.6	N 21 48.6	168 17.5	S 6 24.9	91 48.4	N 26 13.6	57.7	Gienah	175 44.1	S 17 40.7	
15	173 44.4	43 23.6	N 18 17.1	27 37.6	N 15 09.6	108 47.0	N 20 49.7	100 50.6	N 21 48.7	183 20.1	S 6 25.0	106 14.2	N 26 20.2	57.6	Hadar	148 36.5	S 60 29.7	
16	188 46.9	58 23.6	N 18 16.5	42 37.1	N 15 08.6	123 47.7	N 20 50.0	115 52.6	N 21 48.7	198 22.7	S 6 25.0	120 39.9	N 26 26.6	57.6	Hamal	327 51.7	N 23 34.6	
17	203 49.3	73 23.6	N 18 15.8	57 36.5	N 15 07.6	138 48.4	N 20 50.4	130 54.5	N 21 48.8	213 25.2	S 6 25.1	135 05.6	N 26 32.9	57.6				
18	218 51.8	88 23.7	N 18 15.2	72 36.0	N 15 06.6	153 49.1	N 20 50.7	145 56.5	N 21 48.8	228 27.8	S 6 25.1	149 31.2	N 26 39.0	57.6	Kaus aust.	83 32.6	S 34 22.4	
19	233 54.2	103 23.7	N 18 14.6	87 35.4	N 15 05.6	168 49.7	N 20 51.0	160 58.5	N 21 48.9	243 30.4	S 6 25.2	163 56.8	N 26 45.0	57.6	Kochab	137 19.4	N 74 03.5	
20	248 56.7	118 23.7	N 18 14.0	102 34.9	N 15 04.6	183 50.4	N 20 51.3	176 00.5	N 21 48.9	258 32.9	S 6 25.2	178 22.4	N 26 50.8	57.5	Markab	13 30.0	N 15 20.2	
21	263 59.2	133 23.8	N 18 13.4	117 34.4	N 15 03.6	198 51.1	N 20 51.6	191 02.5	N 21 49.0	273 35.5	S 6 25.3	192 47.9	N 26 56.5	57.5	Menkar	314 06.6	N 4 11.2	
22	279 01.6	148 23.8	N 18 12.7	132 33.8	N 15 02.5	213 51.8	N 20 51.9	206 04.4	N 21 49.0	288 38.1	S 6 25.3	207 13.4	N 27 01.9	57.5	Menkent	147 58.0	S 36 29.6	
23	294 04.1	163 23.8	N 18 12.1	147 33.3	N 15 01.5	228 52.5	N 20 52.3	221 06.4	N 21 49.1	303 40.7	S 6 25.4	221 38.8	N 27 07.2	57.5				
31 00	309 06.6	178 23.9	N 18 11.5	162 32.7	N 15 00.5	243 53.2	N 20 52.6	236 08.4	N 21 49.2	318 43.2	S 6 25.4	236 04.3	N 27 12.4	57.4	Miaplacidus	221 39.3	S 69 49.1	
01	324 09.0	193 23.9	N 18 10.9	177 32.2	N 14 59.5	258 53.8	N 20 52.9	251 10.4	N 21 49.2									

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	LUGLIO	25						
01 00	310 05.7	178 24.7	N 17 56.5	162 20.0	N 14 36.1	244 09.6	N 21 00.1	236 56.0	N 21 50.4	319 45.0	S 6 26.8	222 09.3	N 28 25.2	56.9	NOME	360	- AR	Dec.
01 01	325 08.2	193 24.8	N 17 55.8	177 19.5	N 14 35.0	259 10.2	N 21 00.4	251 58.0	N 21 50.4	334 47.6	S 6 26.8	236 34.5	N 28 26.1	56.9	Acamar	315	12.1	S 40 12.1
02 02	340 10.6	208 24.8	N 17 55.2	192 18.9	N 14 34.0	274 10.9	N 21 00.7	267 00.0	N 21 50.5	349 50.2	S 6 26.9	250 59.7	N 28 26.9	56.9	Achernar	335	20.4	S 57 06.4
03 03	355 13.1	223 24.9	N 17 54.6	207 18.4	N 14 33.0	289 11.6	N 21 01.0	282 02.0	N 21 50.5	4 52.7	S 6 27.0	265 24.9	N 28 27.5	56.9	Acruar	173	00.9	S 63 14.3
04 04	10 15.6	238 24.9	N 17 53.9	222 17.9	N 14 32.0	304 12.3	N 21 01.3	297 04.0	N 21 50.6	19 55.3	S 6 27.0	279 50.2	N 28 27.9	56.8	Adhara	255	06.5	S 29 00.2
05 05	25 18.0	253 24.9	N 17 53.3	237 17.4	N 14 30.9	319 13.0	N 21 01.6	312 06.0	N 21 50.7	34 57.9	S 6 27.1	294 15.5	N 28 28.1	56.8	Aldebaran	290	40.3	N 16 33.5
06 06	40 20.5	268 25.0	N 17 52.7	252 16.8	N 14 29.9	334 13.7	N 21 01.9	327 08.0	N 21 50.7	50 00.5	S 6 27.1	308 40.7	N 28 28.1	56.8				
07 07	55 23.0	283 25.0	N 17 52.0	267 16.3	N 14 28.9	349 14.4	N 21 02.2	342 09.9	N 21 50.8	65 03.0	S 6 27.2	323 06.1	N 28 28.0	56.8	Alioth	166	13.4	N 55 49.9
08 08	70 25.4	298 25.1	N 17 51.4	282 15.8	N 14 27.8	4 15.0	N 21 02.5	357 11.9	N 21 50.8	80 05.6	S 6 27.2	337 31.4	N 28 27.8	56.7	Alkaid	152	52.3	N 49 11.7
09 09	85 27.9	313 25.1	N 17 50.8	297 15.3	N 14 26.8	19 15.7	N 21 02.8	12 13.9	N 21 50.9	95 08.2	S 6 27.3	351 56.8	N 28 27.3	56.7	Alnair	27	32.9	S 46 50.4
10 10	100 30.3	328 25.1	N 17 50.1	312 14.8	N 14 25.8	34 16.4	N 21 03.1	27 15.9	N 21 50.9	110 10.8	S 6 27.4	6 22.2	N 28 26.7	56.7	Alnilam	275	38.4	S 1 11.1
11 11	115 32.8	343 25.2	N 17 49.5	327 14.2	N 14 24.7	49 17.1	N 21 03.4	42 17.9	N 21 51.0	125 13.3	S 6 27.4	20 47.6	N 28 25.9	56.7	Alphard	217	48.4	S 8 45.8
12 12	130 35.3	358 25.2	N 17 48.8	342 13.7	N 14 23.7	64 17.8	N 21 03.7	57 19.9	N 21 51.0	140 15.9	S 6 27.5	35 13.1	N 28 25.0	56.7				
13 13	145 37.7	13 25.3	N 17 48.2	357 13.2	N 14 22.7	79 18.5	N 21 04.0	72 21.9	N 21 51.1	155 18.5	S 6 27.5	49 38.6	N 28 23.9	56.6	Alphecca	126	03.9	N 26 38.1
14 14	160 40.2	28 25.3	N 17 47.6	12 12.7	N 14 21.6	94 19.2	N 21 04.3	87 23.9	N 21 51.1	170 21.1	S 6 27.6	64 04.2	N 28 22.6	56.6	Alpheratz	357	35.0	N 29 13.5
15 15	175 42.7	43 25.4	N 17 46.9	27 12.2	N 14 20.6	109 19.8	N 21 04.6	102 25.8	N 21 51.2	185 23.7	S 6 27.6	78 29.8	N 28 21.2	56.6	Altair	62	00.0	N 8 56.0
16 16	190 45.1	58 25.4	N 17 46.3	42 11.6	N 14 19.6	124 20.5	N 21 04.9	117 27.8	N 21 51.2	200 26.2	S 6 27.7	92 55.4	N 28 19.6	56.6	Ankaa	353	07.3	S 42 10.1
17 17	205 47.6	73 25.4	N 17 45.6	57 11.1	N 14 18.5	139 21.2	N 21 05.3	132 29.8	N 21 51.3	215 28.8	S 6 27.8	107 21.1	N 28 17.8	56.6	Antares	112	16.1	S 26 29.2
18 18	220 50.1	88 25.5	N 17 45.0	72 10.6	N 14 17.5	154 21.9	N 21 05.6	147 31.8	N 21 51.3	230 31.4	S 6 27.8	121 46.8	N 28 15.9	56.5				
19 19	235 52.5	103 25.5	N 17 44.4	87 10.1	N 14 16.4	169 22.6	N 21 05.9	162 33.8	N 21 51.4	245 34.0	S 6 27.9	136 12.6	N 28 13.8	56.5	Arcturus	145	48.2	N 19 03.4
20 20	250 55.0	118 25.6	N 17 43.7	102 09.6	N 14 15.4	184 23.3	N 21 06.2	177 35.8	N 21 51.4	260 36.5	S 6 27.9	150 38.4	N 28 11.5	56.5	Atria	107	10.2	S 69 04.5
21 21	265 57.5	133 25.6	N 17 43.1	117 09.1	N 14 14.4	199 24.0	N 21 06.5	192 37.8	N 21 51.5	275 39.1	S 6 28.0	165 04.3	N 28 09.1	56.5	Avior	234	15.6	S 59 35.2
22 22	280 59.9	148 25.7	N 17 42.4	132 08.5	N 14 13.3	214 24.6	N 21 06.8	207 39.8	N 21 51.5	290 41.7	S 6 28.0	179 30.2	N 28 06.5	56.5	Bellatrix	278	23.5	N 6 22.4
23 23	296 02.4	163 25.7	N 17 41.8	147 08.0	N 14 12.3	229 25.3	N 21 07.1	222 41.8	N 21 51.6	305 44.3	S 6 28.1	193 56.2	N 28 03.8	56.4	Betelgeuse	270	52.8	N 7 24.8
02 00	311 04.8	178 25.8	N 17 41.1	162 07.5	N 14 11.2	244 26.0	N 21 07.4	237 43.8	N 21 51.6	320 46.9	S 6 28.2	208 22.2	N 28 00.9	56.4	Canopus	263	53.1	S 52 42.3
01 01	326 07.3	193 25.8	N 17 40.5	177 07.0	N 14 10.2	259 26.7	N 21 07.7	252 45.7	N 21 51.7	335 49.4	S 6 28.2	222 48.3	N 27 57.8	56.4	Capella	280	22.8	N 46 01.3
02 02	341 09.8	208 25.8	N 17 39.8	192 06.5	N 14 09.1	274 27.4	N 21 08.0	267 47.7	N 21 51.7	350 52.0	S 6 28.3	237 14.5	N 27 54.6	56.4	Castor	245	57.9	N 31 50.1
03 03	356 12.2	223 25.9	N 17 39.2	207 06.0	N 14 08.1	289 28.1	N 21 08.3	282 49.7	N 21 51.8	5 54.6	S 6 28.3	251 40.7	N 27 51.2	56.3	Deneb	49	25.6	N 45 22.0
04 04	11 14.7	238 25.9	N 17 38.6	222 05.5	N 14 07.1	304 28.8	N 21 08.6	297 51.7	N 21 51.8	20 57.2	S 6 28.4	266 07.0	N 27 47.7	56.3	Denebola	182	25.5	N 14 26.2
05 05	26 17.2	253 26.0	N 17 37.9	237 04.9	N 14 06.0	319 29.4	N 21 08.9	312 53.7	N 21 51.9	35 59.7	S 6 28.4	280 33.3	N 27 44.0	56.3				
06 06	41 19.6	268 26.0	N 17 37.3	252 04.4	N 14 05.0	334 30.1	N 21 09.2	327 55.7	N 21 51.9	51 02.3	S 6 28.5	294 59.7	N 27 40.2	56.3	Diphda	348	47.5	S 17 50.9
07 07	56 22.1	283 26.1	N 17 36.6	267 03.9	N 14 03.9	349 30.8	N 21 09.5	342 57.7	N 21 52.0	66 04.9	S 6 28.6	309 26.2	N 27 36.2	56.3	Dubhe	193	41.9	N 61 37.4
08 08	71 24.6	298 26.1	N 17 36.0	282 03.4	N 14 02.9	4 31.5	N 21 09.7	357 59.7	N 21 52.0	81 07.5	S 6 28.6	323 52.7	N 27 32.1	56.2	Elnath	278	02.6	N 28 37.7
09 09	86 27.0	313 26.2	N 17 35.3	297 02.9	N 14 01.8	19 32.2	N 21 10.0	13 01.7	N 21 52.1	96 10.1	S 6 28.7	338 19.3	N 27 27.8	56.2	Etamin	90	41.9	N 51 29.2
10 10	101 29.5	328 26.2	N 17 34.7	312 02.4	N 14 00.8	34 32.9	N 21 10.3	28 03.7	N 21 52.1	111 12.6	S 6 28.7	352 46.0	N 27 23.3	56.2	Enif	33	38.9	N 9 59.3
11 11	116 32.0	343 26.3	N 17 34.0	327 01.9	N 13 59.7	49 33.6	N 21 10.6	43 05.7	N 21 52.2	126 15.2	S 6 28.8	7 12.8	N 27 18.8	56.2				
12 12	131 34.4	358 26.3	N 17 33.4	342 01.4	N 13 58.7	64 34.3	N 21 10.9	58 07.7	N 21 52.2	141 17.8	S 6 28.9	21 39.6	N 27 14.0	56.2	Fomalhaut	15	14.6	S 29 29.4
13 13	146 36.9	13 26.4	N 17 32.7	357 00.9	N 13 57.6	79 34.9	N 21 11.2	73 09.6	N 21 52.3	156 20.4	S 6 28.9	36 06.5	N 27 09.1	56.1	Gacrux	171	52.3	S 57 15.3
14 14	161 39.3	28 26.4	N 17 32.1	12 00.4	N 13 56.6	94 35.6	N 21 11.5	88 11.6	N 21 52.3	171 23.0	S 6 29.0	50 33.5	N 27 04.1	56.1	Gienah	175	44.1	S 17 40.7
15 15	176 41.8	43 26.5	N 17 31.4	26 59.9	N 13 55.5	109 36.3	N 21 11.8	103 13.6	N 21 52.4	186 25.5	S 6 29.0	65 00.6	N 26 58.9	56.1	Hadar	148	36.5	S 60 29.7
16 16	191 44.3	58 26.5	N 17 30.8	41 59.3	N 13 54.5	124 37.0	N 21 12.1	118 15.6	N 21 52.4	201 28.1	S 6 29.1	79 27.7	N 26 53.6	56.1	Hamal	327	51.6	N 23 34.6
17 17	206 46.7	73 26.6	N 17 30.1	56 58.8	N 13 53.4	139 37.7	N 21 12.4	133 17.6	N 21 52.5	216 30.7	S 6 29.1	93 54.9	N 26 48.2	56.1				
18 18	221 49.2	88 26.6	N 17 29.4	71 58.3	N 13 52.4	154 38.4	N 21 12.7	148 19.6	N 21 52.5	231 33.3	S 6 29.2	108 22.2	N 26 42.6	56.0	Kaus aust.	83	32.6	S 34 22.4
19 19	236 51.7	103 26.7	N 17 28.8	86 57.8	N 13 51.3	169 39.1	N 21 13.0	163 21.6	N 21 52.6	246 35.9	S 6 29.3	122 49.9	N 26 36.8	56.0	Kochab	137	19.5	N 74 03.5
20 20	251 54.1	118 26.7	N 17 28.1	101 57.3	N 13 50.2	184 39.8	N 21 13.3	178 23.6	N 21 52.6	261 38.4	S 6 29.3	137 17.1	N 26 30.9	56.0	Markab	13	30.0	N 15 20.2
21 21	266 56.6	133 26.8	N 17 27.5	116 56.8	N 13 49.2	199 40.4	N 21 13.6	193 25.6	N 21 52.7	276 41.0	S 6 29.4	151 44.6	N 26 24.9	56.0	Menkar	314	06.6	N 4 11.2
22 22	281 59.1	148 26.8	N 17 26.8	131 56.3	N 13 48.1	214 41.1	N 21 13.9	208 27.6	N 21 52.7	291 43.6	S 6 29.4	166 12.3	N 26 18.7	56.0	Menkent	147	58.1	S 36 29.6
23 23	297 01.5	163 26.9	N 17 26.2	146 55.8	N 13 47.1	229 41.8	N 21 14.2	223 29.6	N 21 52.8	306 46.2	S 6 29.5	180 40.0	N 26 12.5	55.9				
03 00	312 04.0	178 26.9	N 17 25.5	161 55.3	N 13 46.0	244 42.5	N 21 14.5	238 31.6	N 21 52.8	321 48.8	S 6 29.6	195 07.8	N 26 06.0	55.9	Miaplacidus	221	39.3	S 69 49.1
01 01	327 06.5	193 27.0	N 17 24.9	176 54.8	N 13 45.0	259 43.2	N 21 14.8	253 33.6	N 21 52.9	336 51.4	S 6 29.6							

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	LUGLIO	28
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
04 00	313 03.1	178 28.2	N 17 09.6	161 43.4	N 13 20.4	244 59.0	N 21 21.4	239 19.5	N 21 54.0	322 50.8	S 6 31.0	182 42.6	N 22 54.4	55.5	NOME	360	- AR	Dec.
01	328 05.6	193 28.3	N 17 08.9	176 42.9	N 13 19.4	259 59.7	N 21 21.7	254 21.5	N 21 54.0	337 53.3	S 6 31.0	197 12.8	N 22 45.0	55.4	Acamar	315 12.1	S 40 12.1	
02	343 08.1	208 28.3	N 17 08.3	191 42.4	N 13 18.3	275 00.4	N 21 21.9	269 23.5	N 21 54.1	352 55.9	S 6 31.1	211 43.0	N 22 35.5	55.4	Achernar	335 20.3	S 57 06.4	
03	358 10.5	223 28.4	N 17 07.6	206 41.9	N 13 17.2	290 01.1	N 21 22.2	284 25.5	N 21 54.1	7 58.5	S 6 31.2	226 13.3	N 22 25.9	55.4	Acruz	173 00.9	S 63 14.3	
04	13 13.0	238 28.5	N 17 06.9	221 41.4	N 13 16.1	305 01.8	N 21 22.5	299 27.5	N 21 54.2	23 01.1	S 6 31.2	240 43.7	N 22 16.2	55.4	Adhara	255 06.5	S 29 00.2	
05	28 15.4	253 28.5	N 17 06.3	236 40.9	N 13 15.1	320 02.5	N 21 22.8	314 29.5	N 21 54.2	38 03.7	S 6 31.3	255 14.3	N 22 06.4	55.4	Aldebaran	290 40.2	N 16 33.5	
06	43 17.9	268 28.6	N 17 05.6	251 40.4	N 13 14.0	335 03.2	N 21 23.1	329 31.5	N 21 54.3	53 06.3	S 6 31.3	269 44.9	N 21 56.5	55.3				
07	58 20.4	283 28.6	N 17 04.9	266 39.9	N 13 12.9	350 03.9	N 21 23.4	344 33.5	N 21 54.3	68 08.9	S 6 31.4	284 15.6	N 21 46.5	55.3	Alioth	166 13.5	N 55 49.9	
08	73 22.8	298 28.7	N 17 04.2	281 39.5	N 13 11.8	5 04.6	N 21 23.6	359 35.5	N 21 54.4	83 11.4	S 6 31.5	298 46.4	N 21 36.4	55.3	Alkaid	152 52.3	N 49 11.7	
09	88 25.3	313 28.8	N 17 03.6	296 39.0	N 13 10.7	20 05.2	N 21 23.9	14 37.5	N 21 54.4	98 14.0	S 6 31.5	313 17.3	N 21 26.3	55.3	Alnair	27 32.9	S 46 50.4	
10	103 27.8	328 28.8	N 17 02.9	311 38.5	N 13 09.7	35 05.9	N 21 24.2	29 39.5	N 21 54.4	113 16.6	S 6 31.6	327 48.3	N 21 16.0	55.3	Alnilam	275 38.4	S 1 11.1	
11	118 30.2	343 28.9	N 17 02.2	326 38.0	N 13 08.6	50 06.6	N 21 24.5	44 41.5	N 21 54.5	128 19.2	S 6 31.6	342 19.3	N 21 05.6	55.3	Alphard	217 48.4	S 8 45.8	
12	133 32.7	358 28.9	N 17 01.6	341 37.5	N 13 07.5	65 07.3	N 21 24.8	59 43.5	N 21 54.5	143 21.8	S 6 31.7	356 50.5	N 20 55.2	55.2				
13	148 35.2	13 29.0	N 17 00.9	356 37.0	N 13 06.4	80 08.0	N 21 25.0	74 45.5	N 21 54.6	158 24.4	S 6 31.8	11 21.8	N 20 44.6	55.2	Alphecca	126 03.9	N 26 38.1	
14	163 37.6	28 29.1	N 17 00.2	11 36.5	N 13 05.3	95 08.7	N 21 25.3	89 47.5	N 21 54.6	173 27.0	S 6 31.8	25 53.1	N 20 34.0	55.2	Alpheratz	357 35.0	N 29 13.5	
15	178 40.1	43 29.1	N 16 59.5	26 36.1	N 13 04.3	110 09.4	N 21 25.6	104 49.5	N 21 54.7	188 29.5	S 6 31.9	40 24.6	N 20 23.3	55.2	Altair	62 00.0	N 8 56.0	
16	193 42.6	58 29.2	N 16 58.9	41 35.6	N 13 03.2	125 10.1	N 21 25.9	119 51.5	N 21 54.7	203 32.1	S 6 31.9	54 56.1	N 20 12.5	55.2	Ankaa	353 07.3	S 42 10.1	
17	208 45.0	73 29.2	N 16 58.2	56 35.1	N 13 02.1	140 10.8	N 21 26.2	134 53.5	N 21 54.8	218 34.7	S 6 32.0	69 27.8	N 20 01.6	55.2	Antares	112 16.1	S 26 29.2	
18	223 47.5	88 29.3	N 16 57.5	71 34.6	N 13 01.0	155 11.5	N 21 26.4	149 55.5	N 21 54.8	233 37.3	S 6 32.1	83 59.5	N 19 50.6	55.1				
19	238 49.9	103 29.4	N 16 56.8	86 34.1	N 12 59.9	170 12.2	N 21 26.7	164 57.5	N 21 54.9	248 39.9	S 6 32.1	98 31.3	N 19 39.6	55.1	Arcturus	145 48.2	N 19 03.4	
20	253 52.4	118 29.4	N 16 56.1	101 33.6	N 12 58.8	185 12.8	N 21 27.0	179 59.5	N 21 54.9	263 42.5	S 6 32.2	113 03.2	N 19 28.4	55.1	Atria	107 10.3	S 69 04.5	
21	268 54.9	133 29.5	N 16 55.5	116 33.2	N 12 57.8	200 13.5	N 21 27.3	195 01.5	N 21 55.0	278 45.1	S 6 32.2	127 35.2	N 19 17.2	55.1	Avior	234 15.6	S 59 35.2	
22	283 57.3	148 29.6	N 16 54.8	131 32.7	N 12 56.7	215 14.2	N 21 27.5	210 03.5	N 21 55.0	293 47.7	S 6 32.3	142 07.3	N 19 06.0	55.1	Bellatrix	278 23.5	N 6 22.4	
23	298 59.8	163 29.6	N 16 54.1	146 32.2	N 12 55.6	230 14.9	N 21 27.8	225 05.5	N 21 55.1	308 50.2	S 6 32.4	156 39.5	N 18 54.6	55.1	Betelgeuse	270 52.8	N 7 24.8	
05 00	314 02.3	178 29.7	N 16 53.4	161 31.7	N 12 54.5	245 15.6	N 21 28.1	240 07.5	N 21 55.1	323 52.8	S 6 32.4	171 11.8	N 18 43.2	55.0	Canopus	263 53.1	S 52 42.3	
01	329 04.7	193 29.8	N 16 52.7	176 31.2	N 12 53.4	260 16.3	N 21 28.4	255 09.5	N 21 55.2	338 55.4	S 6 32.5	185 44.1	N 18 31.7	55.0	Capella	280 22.8	N 46 01.2	
02	344 07.2	208 29.8	N 16 52.1	191 30.8	N 12 52.3	275 17.0	N 21 28.7	270 11.5	N 21 55.2	353 58.0	S 6 32.5	200 16.6	N 18 20.1	55.0	Castor	245 57.9	N 31 50.1	
03	359 09.7	223 29.9	N 16 51.4	206 30.3	N 12 51.2	290 17.7	N 21 28.9	285 13.6	N 21 55.3	9 00.6	S 6 32.6	214 49.1	N 18 08.4	55.0	Deneb	49 25.6	N 45 22.1	
04	14 12.1	238 29.9	N 16 50.7	221 29.8	N 12 50.1	305 18.4	N 21 29.2	300 15.6	N 21 55.3	24 03.2	S 6 32.7	229 21.7	N 17 56.7	55.0	Denebola	182 25.5	N 44 26.2	
05	29 14.6	253 30.0	N 16 50.0	236 29.3	N 12 49.1	320 19.1	N 21 29.5	315 17.6	N 21 55.3	39 05.8	S 6 32.7	243 54.4	N 17 44.9	55.0				
06	44 17.1	268 30.1	N 16 49.3	251 28.8	N 12 48.0	335 19.8	N 21 29.8	330 19.6	N 21 55.4	54 08.4	S 6 32.8	258 27.2	N 17 33.1	54.9	Diphda	348 47.5	S 17 50.9	
07	59 19.5	283 30.1	N 16 48.7	266 28.4	N 12 46.9	350 20.5	N 21 30.0	345 21.6	N 21 55.4	69 10.9	S 6 32.9	273 00.0	N 17 21.1	54.9	Dubhe	193 41.9	N 61 37.3	
08	74 22.0	298 30.2	N 16 48.0	281 27.9	N 12 45.8	5 21.1	N 21 30.3	0 23.6	N 21 55.5	84 13.5	S 6 32.9	287 33.0	N 17 09.1	54.9	Elnath	278 02.6	N 28 37.7	
09	89 24.4	313 30.3	N 16 47.3	296 27.4	N 12 44.7	20 21.8	N 21 30.6	15 25.6	N 21 55.5	99 16.1	S 6 33.0	302 06.0	N 16 57.1	54.9	Etamin	90 41.9	N 51 29.3	
10	104 26.9	328 30.3	N 16 46.6	311 26.9	N 12 43.6	35 22.5	N 21 30.8	30 27.6	N 21 55.6	114 18.7	S 6 33.0	316 39.1	N 16 45.0	54.9	Enif	33 38.8	N 9 59.3	
11	119 29.4	343 30.4	N 16 45.9	326 26.5	N 12 42.5	50 23.2	N 21 31.1	45 29.6	N 21 55.6	129 21.3	S 6 33.1	331 12.3	N 16 32.8	54.9				
12	134 31.8	358 30.5	N 16 45.2	341 26.0	N 12 41.4	65 23.9	N 21 31.4	60 31.6	N 21 55.7	144 23.9	S 6 33.2	345 45.5	N 16 20.6	54.8	Fomalhaut	15 14.6	S 29 25.2	
13	149 34.3	13 30.5	N 16 44.5	356 25.5	N 12 40.3	80 24.6	N 21 31.7	75 33.6	N 21 55.7	159 26.5	S 6 33.2	0 18.9	N 16 08.3	54.8	Gacrux	171 52.4	S 59 19.4	
14	164 36.8	28 30.6	N 16 43.9	11 25.0	N 12 39.2	95 25.3	N 21 31.9	90 35.6	N 21 55.8	174 29.1	S 6 33.3	14 52.3	N 15 55.9	54.8	Gienah	175 44.1	S 17 40.7	
15	179 39.2	43 30.7	N 16 43.2	26 24.6	N 12 38.1	110 26.0	N 21 32.2	105 37.6	N 21 55.8	189 31.6	S 6 33.3	29 25.8	N 15 43.5	54.8	Hadar	148 36.6	S 60 29.7	
16	194 41.7	58 30.7	N 16 42.5	41 24.1	N 12 37.0	125 26.7	N 21 32.5	120 39.6	N 21 55.9	204 34.2	S 6 33.4	43 59.4	N 15 31.0	54.8	Hamal	327 51.6	N 23 34.7	
17	209 44.2	73 30.8	N 16 41.8	56 23.6	N 12 35.9	140 27.4	N 21 32.7	135 41.6	N 21 55.9	219 36.8	S 6 33.5	58 33.0	N 15 18.5	54.8				
18	224 46.6	88 30.9	N 16 41.1	71 23.1	N 12 34.8	155 28.1	N 21 33.0	150 43.6	N 21 56.0	234 39.4	S 6 33.5	73 06.7	N 15 05.9	54.8	Kaus aust.	83 32.6	S 34 22.4	
19	239 49.1	103 31.0	N 16 40.4	86 22.7	N 12 33.7	170 28.8	N 21 33.3	165 45.6	N 21 56.0	249 42.0	S 6 33.6	87 40.5	N 14 53.3	54.7	Kochab	137 19.5	N 74 03.5	
20	254 51.5	118 31.0	N 16 39.7	101 22.2	N 12 32.6	185 29.5	N 21 33.6	180 47.6	N 21 56.0	264 44.6	S 6 33.7	102 14.4	N 14 40.6	54.7	Markab	13 30.0	N 15 20.2	
21	269 54.0	133 31.1	N 16 39.0	116 21.7	N 12 31.5	200 30.2	N 21 33.8	195 49.7	N 21 56.1	279 47.2	S 6 33.7	116 48.3	N 14 27.8	54.7	Menkar	314 06.6	N 4 11.2	
22	284 56.5	148 31.2	N 16 38.4	131 21.2	N 12 30.4	215 30.9	N 21 34.1	210 51.7	N 21 56.1	294 49.8	S 6 33.8	131 22.4	N 14 15.0	54.7	Menkent	147 58.1	S 36 29.6	
23	299 58.9	163 31.2	N 16 37.7	146 20.8	N 12 29.3	230 31.5	N 21 34.4	225 53.7	N 21 56.2	309 52.4	S 6 33.8	145 56.4	N 14 02.2	54.7				
06 00	315 01.4	178 31.3	N 16 37.0	161 20.3	N 12 28.2	245 32.2	N 21 34.6	240 55.7	N 21 56.2	324 55.0	S 6 33.9	160 30.6	N 13 49.3	54.7	Miaplacidus	221 39.4	S 69 49.1	
01	330 03.9	193 31.4	N 16 36.3	176 19.8	N 12 27.1	260 32.9	N 21 34.9	255 57.7	N 21 56.3	339 57.5								

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	LUGLIO	31
07 00	316 00.5	178 33.1	N 16 20.2	161 09.2	N 12 01.6	245 48.9	N 21 41.0	241 43.9	N 21 57.3	325 57.2	S 6 35.4	150 28.4	N 8 28.1	54.4	NOME	360	- AR	Dec.
01	331 03.0	193 33.1	N 16 19.5	176 08.7	N 12 00.5	260 49.6	N 21 41.2	256 45.9	N 21 57.4	340 59.7	S 6 35.5	165 04.0	N 8 14.4	54.4	Acamar	315 12.1	S 40 12.1	
02	346 05.5	208 33.2	N 16 18.8	191 08.2	N 11 59.4	275 50.3	N 21 41.5	271 48.0	N 21 57.4	356 02.3	S 6 35.5	179 39.6	N 8 00.6	54.4	Achernar	335 20.3	S 57 06.4	
03	1 07.9	223 33.3	N 16 18.1	206 07.8	N 11 58.3	290 51.0	N 21 41.8	286 50.0	N 21 57.5	11 04.9	S 6 35.6	194 15.3	N 7 46.7	54.3	AcruX	173 00.9	S 63 14.3	
04	16 10.4	238 33.4	N 16 17.4	221 07.3	N 11 57.2	305 51.7	N 21 42.0	301 52.0	N 21 57.5	26 07.5	S 6 35.7	208 50.9	N 7 32.9	54.3	Adhara	255 06.5	S 29 00.1	
05	31 12.9	253 33.5	N 16 16.7	236 06.9	N 11 56.0	320 52.4	N 21 42.3	316 54.0	N 21 57.5	41 10.1	S 6 35.7	223 26.7	N 7 19.0	54.3	Aldebaran	290 40.2	N 16 33.5	
06	46 15.3	268 33.5	N 16 16.0	251 06.4	N 11 54.9	335 53.1	N 21 42.5	331 56.0	N 21 57.6	56 12.7	S 6 35.8	238 02.4	N 7 05.1	54.3				
07	61 17.8	283 33.6	N 16 15.3	266 05.9	N 11 53.8	350 53.8	N 21 42.8	346 58.0	N 21 57.6	71 15.3	S 6 35.8	252 38.3	N 6 51.2	54.3	Alioth	166 13.5	N 55 49.9	
08	76 20.3	298 33.7	N 16 14.6	281 05.5	N 11 52.7	5 54.5	N 21 43.0	2 00.0	N 21 57.7	86 17.9	S 6 35.9	267 14.1	N 6 37.3	54.3	Alkaid	152 52.3	N 49 11.7	
09	91 22.7	313 33.8	N 16 13.9	296 05.0	N 11 51.6	20 55.2	N 21 43.3	17 02.1	N 21 57.7	101 20.5	S 6 36.0	281 50.0	N 6 23.4	54.3	Alnair	27 32.9	S 46 50.4	
10	106 25.2	328 33.8	N 16 13.2	311 04.6	N 11 50.4	35 55.9	N 21 43.6	32 04.1	N 21 57.8	116 23.1	S 6 36.0	296 25.9	N 6 09.4	54.3	Alnilam	275 38.3	S 1 11.1	
11	121 27.6	343 33.9	N 16 12.5	326 04.1	N 11 49.3	50 56.6	N 21 43.8	47 06.1	N 21 57.8	131 25.7	S 6 36.1	311 01.8	N 5 55.4	54.3	Alphard	217 48.4	S 8 45.8	
12	136 30.1	358 34.0	N 16 11.8	341 03.7	N 11 48.2	65 57.3	N 21 44.1	62 08.1	N 21 57.9	142 28.3	S 6 36.2	325 37.8	N 5 41.4	54.3				
13	151 32.6	13 34.1	N 16 11.1	356 03.2	N 11 47.1	80 58.0	N 21 44.3	77 10.1	N 21 57.9	161 30.9	S 6 36.2	340 13.8	N 5 27.4	54.3	Alphecca	126 03.9	N 26 38.1	
14	166 35.0	28 34.2	N 16 10.4	11 02.8	N 11 45.9	95 58.7	N 21 44.6	92 12.1	N 21 57.9	176 33.5	S 6 36.3	354 49.9	N 5 13.4	54.2	Alpheratz	357 34.9	N 29 13.5	
15	181 37.5	43 34.2	N 16 09.7	26 02.3	N 11 44.8	110 59.4	N 21 44.8	107 14.1	N 21 58.0	191 36.1	S 6 36.4	9 26.0	N 4 59.3	54.2	Altair	62 00.0	N 8 56.0	
16	196 40.0	58 34.3	N 16 09.0	41 01.9	N 11 43.7	126 00.1	N 21 45.1	122 16.2	N 21 58.0	206 38.7	S 6 36.4	24 02.1	N 4 45.3	54.2	Ankaa	353 07.3	S 42 10.1	
17	211 42.4	73 34.4	N 16 08.2	56 01.4	N 11 42.6	141 00.8	N 21 45.4	137 18.2	N 21 58.1	221 41.2	S 6 36.5	38 38.2	N 4 31.2	54.2	Antares	112 16.1	S 26 29.2	
18	226 44.9	88 34.5	N 16 07.5	71 01.0	N 11 41.5	156 01.5	N 21 45.6	152 20.2	N 21 58.1	236 43.8	S 6 36.5	53 14.3	N 4 17.2	54.2				
19	241 47.4	103 34.6	N 16 06.8	86 00.5	N 11 40.3	171 02.2	N 21 45.9	167 22.2	N 21 58.2	251 46.4	S 6 36.6	67 50.5	N 4 03.1	54.2	Arcturus	145 48.2	N 19 03.4	
20	256 49.8	118 34.7	N 16 06.1	101 00.1	N 11 39.2	186 02.9	N 21 46.1	182 24.2	N 21 58.2	266 49.0	S 6 36.7	82 26.7	N 3 49.0	54.2	Atria	107 10.3	S 69 04.5	
21	271 52.3	133 34.7	N 16 05.4	115 59.6	N 11 38.1	201 03.6	N 21 46.4	197 26.2	N 21 58.3	281 51.6	S 6 36.7	97 03.0	N 3 34.9	54.2	Avior	234 15.6	S 59 35.2	
22	286 54.8	148 34.8	N 16 04.7	130 59.2	N 11 36.9	216 04.3	N 21 46.6	212 28.3	N 21 58.3	296 54.2	S 6 36.8	111 39.2	N 3 20.8	54.2	Bellatrix	278 23.5	N 6 22.4	
23	301 57.2	163 34.9	N 16 04.0	145 58.7	N 11 35.8	231 05.0	N 21 46.9	227 30.3	N 21 58.3	311 56.8	S 6 36.9	126 15.5	N 3 06.6	54.2	Betelgeuse	270 52.7	N 7 24.8	
08 00	316 59.7	178 35.0	N 16 03.3	160 58.3	N 11 34.7	246 05.7	N 21 47.1	242 32.3	N 21 58.4	326 59.4	S 6 36.9	140 51.8	N 2 52.5	54.2	Canopus	263 53.0	S 52 42.3	
01	332 02.1	193 35.1	N 16 02.6	175 57.8	N 11 33.6	261 06.4	N 21 47.4	257 34.3	N 21 58.4	342 02.0	S 6 37.0	155 28.1	N 2 38.4	54.2	Capella	280 22.8	N 46 01.2	
02	347 04.6	208 35.1	N 16 01.8	190 57.4	N 11 32.4	276 07.1	N 21 47.6	272 36.3	N 21 58.5	357 04.6	S 6 37.1	170 04.4	N 2 24.2	54.2	Castor	245 57.9	N 31 50.1	
03	2 07.1	223 35.2	N 16 01.1	205 56.9	N 11 31.3	291 07.7	N 21 47.9	287 38.4	N 21 58.5	12 07.2	S 6 37.1	184 40.7	N 2 10.1	54.2	Deneb	49 25.6	N 45 22.1	
04	17 09.5	238 35.3	N 16 00.4	220 56.5	N 11 30.2	306 08.4	N 21 48.1	302 40.4	N 21 58.6	27 09.8	S 6 37.2	199 17.1	N 1 56.0	54.2	Denebola	182 25.5	N 14 26.2	
05	32 12.0	253 35.4	N 15 59.7	235 56.0	N 11 29.0	321 09.1	N 21 48.4	317 42.4	N 21 58.6	42 12.4	S 6 37.2	213 53.5	N 1 41.8	54.2				
06	47 14.5	268 35.5	N 15 59.0	250 55.6	N 11 27.9	336 09.8	N 21 48.6	332 44.4	N 21 58.6	57 15.0	S 6 37.3	228 29.9	N 1 27.7	54.1	Diphda	348 47.5	S 17 50.9	
07	62 16.9	283 35.6	N 15 58.3	265 55.1	N 11 26.8	351 10.5	N 21 48.9	347 46.4	N 21 58.7	72 17.6	S 6 37.4	243 06.3	N 1 13.5	54.1	Dubhe	193 41.9	N 61 37.3	
08	77 19.4	298 35.7	N 15 57.5	280 54.7	N 11 25.7	6 11.2	N 21 49.1	2 48.4	N 21 58.7	87 20.2	S 6 37.4	257 42.7	N 0 59.4	54.1	Elnath	278 02.6	N 28 37.7	
09	92 21.9	313 35.7	N 15 56.8	295 54.2	N 11 24.5	21 11.9	N 21 49.4	17 50.5	N 21 58.8	102 22.8	S 6 37.5	272 19.1	N 0 45.2	54.1	Etamin	90 41.9	N 51 29.3	
10	107 24.3	328 35.8	N 15 56.1	310 53.8	N 11 23.4	36 12.6	N 21 49.6	32 52.5	N 21 58.8	117 25.4	S 6 37.6	286 55.5	N 0 31.0	54.1	Enif	33 38.8	N 9 59.3	
11	122 26.8	343 35.9	N 15 55.4	325 53.3	N 11 22.3	51 13.3	N 21 49.9	47 54.5	N 21 58.9	132 28.0	S 6 37.6	301 30.2	N 0 16.9	54.1				
12	137 29.2	358 36.0	N 15 54.7	340 52.9	N 11 21.1	66 14.0	N 21 50.1	62 56.5	N 21 58.9	147 30.6	S 6 37.7	316 08.4	N 0 02.7	54.1	Fomalhaut	15 14.6	S 29 29.4	
13	152 31.7	13 36.1	N 15 54.0	355 52.4	N 11 20.0	81 14.7	N 21 50.4	77 58.5	N 21 59.0	162 33.2	S 6 37.8	330 44.8	N 0 11.4	54.1	Gacrux	171 52.4	S 57 15.2	
14	167 34.2	28 36.2	N 15 53.2	10 52.0	N 11 18.8	96 15.4	N 21 50.6	93 00.6	N 21 59.0	177 35.8	S 6 37.8	345 21.3	N 0 25.6	54.1	Gienah	175 44.2	S 17 40.7	
15	182 36.6	43 36.3	N 15 52.5	25 51.6	N 11 17.7	111 16.1	N 21 50.9	108 02.6	N 21 59.0	192 38.4	S 6 37.9	359 57.8	N 0 39.7	54.1	Hadar	148 36.6	S 60 29.7	
16	197 39.1	58 36.3	N 15 51.8	40 51.1	N 11 16.6	126 16.8	N 21 51.1	123 04.6	N 21 59.1	207 41.0	S 6 38.0	14 34.2	N 0 53.8	54.1	Hamal	327 51.6	N 23 34.7	
17	212 41.6	73 36.4	N 15 51.1	55 50.7	N 11 15.4	141 17.5	N 21 51.4	138 06.6	N 21 59.1	222 43.6	S 6 38.0	29 10.7	N 1 08.0	54.1				
18	227 44.0	88 36.5	N 15 50.4	70 50.2	N 11 14.3	156 18.2	N 21 51.6	153 08.6	N 21 59.2	237 46.1	S 6 38.1	43 47.1	N 1 22.1	54.1	Kaus aust.	83 32.6	S 34 22.4	
19	242 46.5	103 36.6	N 15 49.6	85 49.8	N 11 13.2	171 18.9	N 21 51.9	168 10.7	N 21 59.2	252 48.7	S 6 38.1	58 23.6	N 1 36.2	54.1	Kochab	137 19.6	N 74 03.5	
20	257 49.0	118 36.7	N 15 48.9	100 49.3	N 11 12.0	186 19.6	N 21 52.1	183 12.7	N 21 59.3	267 51.3	S 6 38.2	73 00.1	N 1 50.3	54.1	Markab	13 30.0	N 15 20.3	
21	272 51.4	133 36.8	N 15 48.2	115 48.9	N 11 10.9	201 20.3	N 21 52.4	198 14.7	N 21 59.3	282 53.9	S 6 38.3	87 36.5	N 2 04.4	54.1	Menkar	314 06.6	N 4 11.2	
22	287 53.9	148 36.9	N 15 47.5	130 48.5	N 11 09.7	216 21.0	N 21 52.6	213 16.7	N 21 59.3	297 56.5	S 6 38.3	102 13.0	N 2 18.5	54.1	Menkent	147 58.1	S 36 29.6	
23	302 56.4	163 37.0	N 15 46.7	145 48.0	N 11 08.6	231 21.7	N 21 52.8	228 18.8	N 21 59.4	312 59.1	S 6 38.4	116 49.4	N 2 32.6	54.1				
09 00	317 58.8	178 37.0	N 15 46.0	160 47.6	N 11 07.5	246 22.4	N 21 53.1	243 20.8	N 21 59.4	328 01.7	S 6 38.5	131 25.8	N 2 46.7	54.1	Miaplacidus	221 39.4	S 69 49.1	
01	333 01.3	193 37.1	N 15 45.3	175 47.1	N 11 06.3	261 23.1	N 21 53.3	258 22.8	N 21 59.5	343 04.3	S 6 38.5	146 02.3	N 3 00.7	54.1	Mirfak	308 28.9	N 49 56.7	
02	348 03.7	208 37.2	N 15 44.6	190 46.7	N 11													

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	AGOSTO	01
d h	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	'	NOME	360	- AR	Dec.
10 00	318 58.0	178 39.3	N 15 28.5	160 37.2	N 10 40.0	246 39.3	N 21 58.9	244 09.4	N 22 00.4	329 04.1	S 6 40.0	121 55.5	S 8 19.7	54.2	NOME	360	- AR	Dec.
01	334 00.4	193 39.4	N 15 27.8	175 36.7	N 10 38.8	261 40.0	N 21 59.1	259 11.4	N 22 00.5	344 06.7	S 6 40.1	136 31.4	S 8 33.3	54.2	Acamar	315	12.1	S 40 12.1
02	349 02.9	208 39.4	N 15 27.1	190 36.3	N 10 37.6	276 40.7	N 21 59.3	274 13.4	N 22 00.5	359 09.3	S 6 40.2	151 07.3	S 8 46.9	54.2	Achernar	335	20.3	S 57 06.4
03	4 05.3	223 39.5	N 15 26.3	205 35.9	N 10 36.5	291 41.4	N 21 59.6	289 15.5	N 22 00.6	14 11.9	S 6 40.2	165 43.1	S 9 00.4	54.2	AcruX	173	00.9	S 63 14.3
04	19 07.8	238 39.6	N 15 25.6	220 35.4	N 10 35.3	306 42.1	N 21 59.8	304 17.5	N 22 00.6	29 14.5	S 6 40.3	180 18.9	S 9 13.9	54.2	Adhara	255	06.5	S 29 00.1
05	34 10.3	253 39.7	N 15 24.8	235 35.0	N 10 34.2	321 42.8	N 22 00.0	319 19.5	N 22 00.7	44 17.1	S 6 40.4	194 54.7	S 9 27.4	54.2	Aldebaran	290	40.2	N 16 33.5
06	49 12.7	268 39.8	N 15 24.1	250 34.6	N 10 33.0	336 43.5	N 22 00.3	334 21.5	N 22 00.7	59 19.7	S 6 40.4	209 30.4	S 9 40.9	54.2				
07	64 15.2	283 39.9	N 15 23.4	265 34.2	N 10 31.9	351 44.2	N 22 00.5	349 23.6	N 22 00.7	74 22.3	S 6 40.5	224 06.1	S 9 54.3	54.2	Alioth	166	13.5	N 55 49.9
08	79 17.7	298 40.0	N 15 22.6	280 33.7	N 10 30.7	6 44.9	N 22 00.7	4 25.6	N 22 00.8	89 24.9	S 6 40.6	238 41.7	S 10 07.7	54.2	Alkaid	152	52.4	N 49 11.7
09	94 20.1	313 40.1	N 15 21.9	295 33.3	N 10 29.6	21 45.6	N 22 01.0	19 27.6	N 22 00.8	104 27.5	S 6 40.6	253 17.3	S 10 21.1	54.2	Alnair	27	32.9	S 46 50.4
10	109 22.6	328 40.2	N 15 21.2	310 32.9	N 10 28.4	36 46.3	N 22 01.2	34 29.7	N 22 00.9	119 30.1	S 6 40.7	267 52.9	S 10 34.4	54.2	Alnilam	275	38.3	S 1 11.1
11	124 25.1	343 40.3	N 15 20.4	325 32.5	N 10 27.2	51 47.0	N 22 01.4	49 31.7	N 22 00.9	134 32.7	S 6 40.8	282 28.4	S 10 47.7	54.2	Alphard	217	48.4	S 8 45.8
12	139 27.5	358 40.4	N 15 19.7	340 32.0	N 10 26.1	66 47.8	N 22 01.7	64 33.7	N 22 00.9	149 35.3	S 6 40.8	297 03.8	S 11 00.9	54.3				
13	154 30.0	13 40.5	N 15 18.9	355 31.6	N 10 24.9	81 48.5	N 22 01.9	79 35.7	N 22 01.0	164 37.9	S 6 40.9	311 39.2	S 11 14.1	54.3	Alphecca	126	03.9	N 26 38.1
14	169 32.5	28 40.6	N 15 18.2	10 31.2	N 10 23.8	96 49.2	N 22 02.1	94 37.8	N 22 01.0	179 40.5	S 6 41.0	326 14.6	S 11 27.3	54.3	Alpheratz	357	34.9	N 29 13.5
15	184 34.9	43 40.7	N 15 17.5	25 30.8	N 10 22.6	111 49.9	N 22 02.4	109 39.8	N 22 01.1	194 43.1	S 6 41.0	340 49.9	S 11 40.5	54.3	Altair	62	00.0	N 8 56.1
16	199 37.4	58 40.8	N 15 16.7	40 30.3	N 10 21.5	126 50.6	N 22 02.6	124 41.1	N 22 01.1	209 45.7	S 6 41.1	355 25.2	S 11 53.6	54.3	Ankaa	353	07.3	S 42 10.1
17	214 39.8	73 40.9	N 15 16.0	55 29.9	N 10 20.3	141 51.3	N 22 02.8	139 43.9	N 22 01.2	224 48.4	S 6 41.2	10 00.4	S 12 06.6	54.3	Antares	112	16.1	S 26 29.2
18	229 42.3	88 41.0	N 15 15.2	70 29.5	N 10 19.1	156 52.0	N 22 03.1	154 45.9	N 22 01.2	239 51.0	S 6 41.2	24 35.5	S 12 19.7	54.3				
19	244 44.8	103 41.1	N 15 14.5	85 29.1	N 10 18.0	171 52.7	N 22 03.3	169 47.9	N 22 01.2	254 53.6	S 6 41.3	39 10.6	S 12 32.6	54.3	Arcturus	145	48.2	N 19 03.4
20	259 47.2	118 41.2	N 15 13.8	100 28.6	N 10 16.8	186 53.4	N 22 03.5	184 50.0	N 22 01.3	269 56.2	S 6 41.4	53 45.7	S 12 45.6	54.3	Atria	107	10.3	S 69 04.5
21	274 49.7	133 41.3	N 15 13.0	115 28.2	N 10 15.6	201 54.1	N 22 03.7	199 52.0	N 22 01.3	284 58.8	S 6 41.4	68 20.7	S 12 58.5	54.3	Avior	234	15.6	S 59 35.2
22	289 52.2	148 41.4	N 15 12.3	130 27.8	N 10 14.5	216 54.8	N 22 04.0	214 54.0	N 22 01.4	300 01.4	S 6 41.5	82 55.6	S 13 11.3	54.4	Bellatrix	278	23.5	N 6 22.4
23	304 54.6	163 41.5	N 15 11.5	145 27.4	N 10 13.3	231 55.5	N 22 04.2	229 56.0	N 22 01.4	315 04.0	S 6 41.6	97 30.5	S 13 24.2	54.4	Betelgeuse	270	52.7	N 7 24.8
11 00	319 57.1	178 41.6	N 15 10.8	160 27.0	N 10 12.2	246 56.2	N 22 04.4	244 58.1	N 22 01.4	330 06.6	S 6 41.6	112 05.3	S 13 36.9	54.4	Canopus	263	53.0	S 52 42.3
01	334 59.6	193 41.7	N 15 10.0	175 26.5	N 10 11.0	261 56.9	N 22 04.7	260 00.1	N 22 01.5	345 09.2	S 6 41.7	126 40.0	S 13 49.6	54.4	Capella	280	22.7	N 46 01.2
02	350 02.0	208 41.8	N 15 09.3	190 26.1	N 10 09.8	276 57.6	N 22 04.9	275 02.1	N 22 01.5	0 11.8	S 6 41.8	141 14.7	S 14 02.3	54.4	Castor	245	57.9	N 31 50.1
03	5 04.5	223 41.9	N 15 08.5	205 25.7	N 10 08.7	291 58.3	N 22 05.1	290 04.2	N 22 01.6	15 14.4	S 6 41.8	155 49.3	S 14 15.0	54.4	Deneb	49	25.6	N 45 22.1
04	20 06.9	238 42.0	N 15 07.8	220 25.3	N 10 07.5	306 59.0	N 22 05.3	305 06.2	N 22 01.6	30 17.0	S 6 41.9	170 23.9	S 14 27.5	54.4	Denebola	182	25.5	N 44 26.2
05	35 09.4	253 42.1	N 15 07.1	235 24.9	N 10 06.3	321 59.8	N 22 05.6	320 08.2	N 22 01.6	45 19.6	S 6 42.0	184 58.4	S 14 40.1	54.5				
06	50 11.9	268 42.2	N 15 06.3	250 24.4	N 10 05.2	337 00.5	N 22 05.8	335 10.3	N 22 01.7	60 22.2	S 6 42.0	199 32.8	S 14 52.5	54.5	Diphda	348	47.5	S 17 50.9
07	65 14.3	283 42.3	N 15 05.6	265 24.0	N 10 04.0	352 01.2	N 22 06.0	350 12.3	N 22 01.7	75 24.8	S 6 42.1	214 07.2	S 15 05.0	54.5	Dubhe	193	41.9	N 61 37.3
08	80 16.8	298 42.4	N 15 04.8	280 23.6	N 10 02.8	7 01.9	N 22 06.3	5 14.3	N 22 01.8	90 27.4	S 6 42.2	228 41.5	S 15 17.4	54.5	Elnath	278	02.6	N 28 37.7
09	95 19.3	313 42.5	N 15 04.1	295 23.2	N 10 01.7	22 02.6	N 22 06.5	20 16.4	N 22 01.8	105 30.0	S 6 42.2	243 15.7	S 15 29.7	54.5	Etamin	90	41.9	N 51 29.3
10	110 21.7	328 42.6	N 15 03.3	310 22.8	N 10 00.5	37 03.3	N 22 06.7	35 18.4	N 22 01.8	120 32.6	S 6 42.3	257 49.9	S 15 42.0	54.5	Enif	33	38.8	N 9 59.3
11	125 24.2	343 42.7	N 15 02.6	325 22.4	N 9 59.3	52 04.0	N 22 06.9	50 20.4	N 22 01.9	135 35.2	S 6 42.4	272 24.0	S 15 54.2	54.5				
12	140 26.7	358 42.9	N 15 01.8	340 21.9	N 9 58.2	67 04.7	N 22 07.2	65 22.5	N 22 01.9	150 37.8	S 6 42.4	286 58.0	S 16 06.3	54.6	Fomalhaut	15	14.6	S 29 29.4
13	155 29.1	13 43.0	N 15 01.1	355 21.5	N 9 57.0	82 05.4	N 22 07.4	80 24.5	N 22 02.0	165 40.4	S 6 42.5	301 31.9	S 16 18.4	54.6	Gacrux	171	52.4	S 59 15.2
14	170 31.6	28 43.1	N 15 00.3	10 21.1	N 9 55.8	97 06.1	N 22 07.6	95 26.6	N 22 02.0	180 43.0	S 6 42.6	316 05.8	S 16 30.5	54.6	Gienah	175	44.2	S 17 40.7
15	185 34.1	43 43.2	N 14 59.6	25 20.7	N 9 54.6	112 06.8	N 22 07.8	110 28.6	N 22 02.0	195 45.6	S 6 42.6	330 39.5	S 16 42.5	54.6	Hadar	148	36.6	S 60 29.7
16	200 36.5	58 43.3	N 14 58.8	40 20.3	N 9 53.5	127 07.5	N 22 08.1	125 30.6	N 22 02.1	210 48.2	S 6 42.7	345 13.3	S 16 54.4	54.6	Hamal	327	51.6	N 23 34.7
17	215 39.0	73 43.4	N 14 58.1	55 19.9	N 9 52.3	142 08.2	N 22 08.3	140 32.7	N 22 02.1	225 50.8	S 6 42.8	359 46.9	S 17 06.3	54.6				
18	230 41.4	88 43.5	N 14 57.3	70 19.5	N 9 51.1	157 08.9	N 22 08.5	155 34.7	N 22 02.2	240 53.4	S 6 42.8	14 20.4	S 17 18.1	54.7	Kaus aust.	83	32.6	S 34 22.4
19	245 43.9	103 43.6	N 14 56.6	85 19.0	N 9 50.0	172 09.7	N 22 08.7	170 36.7	N 22 02.2	255 56.0	S 6 42.9	28 53.9	S 17 29.9	54.7	Kochab	137	19.6	N 74 03.5
20	260 46.4	118 43.7	N 14 55.8	100 18.6	N 9 48.8	187 10.4	N 22 08.9	185 38.8	N 22 02.2	270 58.7	S 6 43.0	43 27.3	S 17 41.5	54.7	Markab	13	30.0	N 15 20.3
21	275 48.8	133 43.8	N 14 55.1	115 18.2	N 9 47.6	202 11.1	N 22 09.2	200 40.8	N 22 02.3	286 01.3	S 6 43.0	58 00.6	S 17 53.2	54.7	Menkar	314	06.6	N 4 11.2
22	290 51.3	148 43.9	N 14 54.3	130 17.8	N 9 46.4	217 11.8	N 22 09.4	215 42.8	N 22 02.3	301 03.9	S 6 43.1	72 33.8	S 18 04.7	54.7	Menkent	147	58.1	S 36 29.6
23	305 53.8	163 44.0	N 14 53.6	145 17.4	N 9 45.3	232 12.5	N 22 09.6	230 44.9	N 22 02.4	316 06.5	S 6 43.2	87 07.0	S 18 16.2	54.7				
12 00	320 56.2	178 44.1	N 14 52.8	160 17.0	N 9 44.1	247 13.2	N 22 09.8	245 46.9	N 22 02.4	331 09.1	S 6 43.2	101 40.0	S 18 27.6	54.8	Miaplacidus	221	39.4	S 69 49.0
01	335 58.7	193 44.2	N 14 52.0	175 16.6	N 9 42.9	262 13.9	N 22 10.0	260 48.9	N 22 02.4									

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	AGOSTO	04
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
13 00	321 55.4	178 46.8	N 14 34.6	160 07.2	N 9 15.8	247 30.3	N 22 15.0	246 35.9	N 22 03.4	332 11.6	S 6 44.9	90 26.0	S 22 39.0	55.3	NOME	360	- AR	Dec.
01	336 57.8	193 46.9	N 14 33.8	175 06.8	N 9 14.6	262 31.0	N 22 15.2	261 37.9	N 22 03.4	347 14.2	S 6 44.9	104 56.7	S 22 48.4	55.3	Acamar	315 12.0	S 40 12.1	
02	352 00.3	208 47.0	N 14 33.1	190 06.4	N 9 13.4	277 31.7	N 22 15.5	276 39.9	N 22 03.4	2 16.9	S 6 45.0	119 27.2	S 22 57.7	55.4	Achernar	335 20.2	S 57 06.4	
03	7 02.8	223 47.1	N 14 32.3	205 06.0	N 9 12.2	292 32.4	N 22 15.7	291 42.0	N 22 03.5	17 19.5	S 6 45.1	133 57.7	S 23 06.9	55.4	AcruX	173 00.9	S 63 14.3	
04	22 05.2	238 47.2	N 14 31.5	220 05.6	N 9 11.0	307 33.1	N 22 15.9	306 44.0	N 22 03.5	32 22.1	S 6 45.1	148 28.1	S 23 16.0	55.4	Adhara	255 06.5	S 29 00.1	
05	37 07.7	253 47.3	N 14 30.8	235 05.2	N 9 9 09.8	322 33.8	N 22 16.1	321 46.1	N 22 03.5	47 24.7	S 6 45.2	162 58.4	S 23 25.0	55.4	Aldebaran	290 40.2	N 16 33.5	
06	52 10.2	268 47.5	N 14 30.0	250 04.8	N 9 08.7	337 34.5	N 22 16.3	336 48.1	N 22 03.6	62 27.3	S 6 45.3	177 28.5	S 23 33.9	55.5				
07	67 12.6	283 47.6	N 14 29.2	265 04.4	N 9 07.5	352 35.2	N 22 16.5	351 50.2	N 22 03.6	77 29.9	S 6 45.4	191 58.6	S 23 42.7	55.5	Alioth	166 13.5	N 55 49.9	
08	82 15.1	298 47.7	N 14 28.5	280 04.0	N 9 06.3	7 36.0	N 22 16.7	6 52.2	N 22 03.7	92 32.5	S 6 45.4	206 28.5	S 23 51.4	55.5	Alkaid	152 52.4	N 49 11.7	
09	97 17.5	313 47.8	N 14 27.7	295 03.6	N 9 05.1	22 36.7	N 22 16.9	21 54.3	N 22 03.7	107 35.1	S 6 45.5	220 58.4	S 24 00.0	55.6	Alnair	27 32.9	S 46 50.4	
10	112 20.0	328 47.9	N 14 26.9	310 03.2	N 9 03.9	37 37.4	N 22 17.1	36 56.3	N 22 03.7	122 37.7	S 6 45.6	235 28.1	S 24 08.5	55.6	Alnilam	275 38.3	S 1 11.0	
11	127 22.5	343 48.0	N 14 26.2	325 02.8	N 9 02.7	52 38.1	N 22 17.4	51 58.3	N 22 03.8	137 40.3	S 6 45.6	249 57.8	S 24 16.9	55.6	Alphard	217 48.4	S 8 45.8	
12	142 24.9	358 48.1	N 14 25.4	340 02.4	N 9 01.5	67 38.8	N 22 17.6	67 00.4	N 22 03.8	152 42.9	S 6 45.7	264 27.3	S 24 25.2	55.6				
13	157 27.4	13 48.3	N 14 24.6	355 02.0	N 9 00.3	82 39.5	N 22 17.8	82 02.4	N 22 03.9	167 45.6	S 6 45.8	278 56.7	S 24 33.3	55.7	Alphecca	126 03.9	N 26 38.1	
14	172 29.9	28 48.4	N 14 23.9	10 01.6	N 8 59.1	97 40.2	N 22 18.0	97 04.5	N 22 03.9	182 48.2	S 6 45.8	293 26.0	S 24 41.4	55.7	Alpheratz	357 34.9	N 29 13.5	
15	187 32.3	43 48.5	N 14 23.1	25 01.2	N 8 57.9	112 41.0	N 22 18.2	112 06.5	N 22 03.9	197 50.8	S 6 45.9	307 55.2	S 24 49.3	55.7	Altair	62 00.0	N 8 56.1	
16	202 34.8	58 48.6	N 14 22.3	40 00.8	N 8 56.8	127 41.7	N 22 18.4	127 08.6	N 22 04.0	212 53.4	S 6 46.0	322 24.3	S 24 57.1	55.8	Ankaa	353 07.2	S 42 10.1	
17	217 37.3	73 48.7	N 14 21.5	55 00.4	N 8 55.6	142 42.4	N 22 18.6	142 10.6	N 22 04.0	227 56.0	S 6 46.0	336 53.3	S 25 04.8	55.8	Antares	112 16.1	S 26 29.2	
18	232 39.7	88 48.8	N 14 20.8	70 00.0	N 8 54.4	157 43.1	N 22 18.8	157 12.7	N 22 04.0	242 58.6	S 6 46.1	351 22.2	S 25 12.4	55.8				
19	247 42.2	103 49.0	N 14 20.0	84 59.6	N 8 53.2	172 43.8	N 22 19.0	172 14.7	N 22 04.1	258 01.2	S 6 46.2	5 51.0	S 25 19.9	55.9	Arcturus	145 48.3	N 19 03.4	
20	262 44.7	118 49.1	N 14 19.2	99 59.2	N 8 52.0	187 44.5	N 22 19.2	187 16.8	N 22 04.1	273 03.8	S 6 46.2	20 19.6	S 25 27.2	55.9	Atria	107 10.3	S 69 04.5	
21	277 47.1	133 49.2	N 14 18.5	114 58.8	N 8 50.8	202 45.2	N 22 19.4	202 18.8	N 22 04.2	288 06.4	S 6 46.3	34 48.2	S 25 34.5	55.9	Avior	234 15.6	S 59 35.2	
22	292 49.6	148 49.3	N 14 17.7	129 58.4	N 8 49.6	217 46.0	N 22 19.6	217 20.8	N 22 04.2	303 09.0	S 6 46.4	49 16.7	S 25 41.6	55.9	Bellatrix	278 23.5	N 6 22.4	
23	307 52.0	163 49.4	N 14 16.9	144 58.1	N 8 48.4	232 46.7	N 22 19.8	232 22.9	N 22 04.2	318 11.6	S 6 46.5	63 45.0	S 25 48.6	56.0	Betelgeuse	270 52.7	N 7 24.8	
14 00	322 54.5	178 49.6	N 14 16.1	159 57.7	N 8 47.2	247 47.4	N 22 20.0	247 24.9	N 22 04.3	333 14.3	S 6 46.5	78 13.3	S 25 55.4	56.0	Canopus	263 53.0	S 52 42.3	
01	337 57.0	193 49.7	N 14 15.4	174 57.3	N 8 46.0	262 48.1	N 22 20.3	262 27.0	N 22 04.3	348 16.9	S 6 46.6	92 41.4	S 26 02.1	56.0	Capella	280 22.7	N 46 01.2	
02	352 59.4	208 49.8	N 14 14.6	189 56.9	N 8 44.8	277 48.8	N 22 20.5	277 29.0	N 22 04.4	3 19.5	S 6 46.7	107 09.4	S 26 08.7	56.1	Castor	245 57.9	N 31 50.1	
03	8 01.9	223 49.9	N 14 13.8	204 56.5	N 8 43.6	292 49.5	N 22 20.7	292 31.1	N 22 04.4	18 22.1	S 6 46.7	121 37.3	S 26 15.2	56.1	Deneb	49 25.6	N 45 22.1	
04	23 04.4	238 50.0	N 14 13.0	219 56.1	N 8 42.4	307 50.2	N 22 20.9	307 33.1	N 22 04.4	33 24.7	S 6 46.8	136 05.2	S 26 21.6	56.1	Denebola	182 25.5	N 44 26.2	
05	38 06.8	253 50.2	N 14 12.3	234 55.7	N 8 41.2	322 51.0	N 22 21.1	322 35.2	N 22 04.5	48 27.3	S 6 46.9	150 32.9	S 26 27.8	56.2				
06	53 09.3	268 50.3	N 14 11.5	249 55.3	N 8 40.0	337 51.7	N 22 21.3	337 37.2	N 22 04.5	63 29.9	S 6 46.9	165 00.9	S 26 33.8	56.2	Diphda	348 47.5	S 17 50.9	
07	68 11.8	283 50.4	N 14 10.7	264 54.9	N 8 38.8	352 52.4	N 22 21.5	352 39.3	N 22 04.5	78 32.5	S 6 47.0	179 28.0	S 26 39.8	56.2	Dubhe	193 41.9	N 61 37.3	
08	83 14.2	298 50.5	N 14 09.9	279 54.5	N 8 37.6	7 53.1	N 22 21.7	7 41.3	N 22 04.6	93 35.1	S 6 47.1	193 55.4	S 26 45.6	56.3	Elnath	278 02.6	N 28 37.7	
09	98 16.7	313 50.6	N 14 09.2	294 54.1	N 8 36.4	22 53.8	N 22 21.9	22 43.4	N 22 04.6	108 37.8	S 6 47.1	208 22.7	S 26 51.3	56.3	Etamin	90 41.9	N 51 29.3	
10	113 19.2	328 50.8	N 14 08.4	309 53.7	N 8 35.2	37 54.5	N 22 22.1	37 45.4	N 22 04.7	123 40.4	S 6 47.2	222 49.9	S 26 56.8	56.3	Enif	33 38.8	N 9 59.3	
11	128 21.6	343 50.9	N 14 07.6	324 53.3	N 8 34.0	52 55.3	N 22 22.3	52 47.5	N 22 04.7	138 43.0	S 6 47.3	237 17.0	S 27 02.2	56.4				
12	143 24.1	358 51.0	N 14 06.8	339 53.0	N 8 32.8	67 56.0	N 22 22.5	67 49.5	N 22 04.7	153 45.6	S 6 47.4	251 44.0	S 27 07.4	56.4	Fomalhaut	15 14.6	S 29 29.4	
13	158 26.5	13 51.1	N 14 06.0	354 52.6	N 8 31.6	82 56.7	N 22 22.7	82 51.6	N 22 04.8	168 48.2	S 6 47.4	266 10.9	S 27 12.6	56.4	Gacrux	171 52.4	S 59 15.2	
14	173 29.0	28 51.2	N 14 05.3	9 52.2	N 8 30.4	97 57.4	N 22 22.9	97 53.6	N 22 04.8	183 50.8	S 6 47.5	280 37.7	S 27 17.5	56.5	Gienah	175 44.2	S 17 40.7	
15	188 31.5	43 51.4	N 14 04.5	24 51.8	N 8 29.2	112 58.1	N 22 23.1	112 55.7	N 22 04.8	198 53.4	S 6 47.6	295 04.4	S 27 22.3	56.5	Hadar	148 36.6	S 60 29.7	
16	203 33.9	58 51.5	N 14 03.7	39 51.4	N 8 28.0	127 58.8	N 22 23.3	127 57.7	N 22 04.9	213 56.0	S 6 47.6	309 31.0	S 27 27.0	56.5	Hamal	327 51.5	N 23 34.7	
17	218 36.4	73 51.6	N 14 02.9	54 51.0	N 8 26.8	142 59.6	N 22 23.5	142 59.8	N 22 04.9	228 58.6	S 6 47.7	323 57.5	S 27 31.5	56.6				
18	233 38.9	88 51.7	N 14 02.2	69 50.6	N 8 25.6	158 00.3	N 22 23.7	158 01.8	N 22 05.0	244 01.3	S 6 47.8	338 23.9	S 27 35.9	56.6	Kaus aust.	83 32.6	S 34 22.4	
19	248 41.3	103 51.9	N 14 01.4	84 50.2	N 8 24.4	173 01.0	N 22 23.9	173 03.9	N 22 05.0	259 03.9	S 6 47.8	352 50.2	S 27 40.1	56.7	Kochab	137 19.7	N 74 03.5	
20	263 43.8	118 52.0	N 14 00.6	99 49.8	N 8 23.2	188 01.7	N 22 24.1	188 05.9	N 22 05.0	274 06.5	S 6 47.9	7 16.4	S 27 44.2	56.7	Markab	13 30.0	N 15 20.3	
21	278 46.3	133 52.1	N 13 59.8	114 49.5	N 8 22.0	203 02.4	N 22 24.3	203 08.0	N 22 05.1	289 09.1	S 6 48.0	21 42.6	S 27 48.1	56.7	Menkar	314 06.5	N 4 11.3	
22	293 48.7	148 52.2	N 13 59.0	129 49.1	N 8 20.8	218 03.1	N 22 24.5	218 10.0	N 22 05.1	304 11.7	S 6 48.1	36 08.6	S 27 51.9	56.8	Menkent	147 58.1	S 36 29.6	
23	308 51.2	163 52.4	N 13 58.2	144 48.7	N 8 19.6	233 03.9	N 22 24.7	233 12.1	N 22 05.1	319 14.3	S 6 48.1	50 34.6	S 27 55.5	56.8				
15 00	323 53.7	178 52.5	N 13 57.5	159 48.3	N 8 18.4	248 04.6	N 22 24.9	248 14.1	N 22 05.2	334 16.9	S 6 48.2	65 00.4	S 27 59.0	56.8	Miaplacidus	221 39.4	S 69 49.0	
01	338 56.1	193 52.6	N 13 56.7	174 47.9	N 8 17.2	263 05.3	N 22 25.1	263 16.2	N 22 05.2	349 19.5	S 6 48.3	79 26.2	S 28 02.3	56.9	M			

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	AGOSTO	07
d h	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "
16 00	324 52.8	178 55.5	N 13 38.6	159 39.1	N 7 49.4	248 21.9	N 22 29.5	249 03.5	N 22 06.1	335 19.7	S 6 49.9	50 58.4	S 28 32.2	57.7	NOME	360	- AR	Dec.
01	339 55.3	193 55.7	N 13 37.8	174 38.7	N 7 48.2	263 22.6	N 22 29.7	264 05.5	N 22 06.1	350 22.3	S 6 49.9	65 22.6	S 28 31.4	57.8	Acamar	315 12.0	S 40 12.0	
02	354 57.7	208 55.8	N 13 37.0	189 38.4	N 7 47.0	278 23.3	N 22 29.9	279 07.6	N 22 06.1	5 24.9	S 6 50.0	79 46.7	S 28 30.5	57.8	Achernar	335 20.2	S 57 06.4	
03	10 00.2	223 55.9	N 13 36.2	204 38.0	N 7 45.8	293 24.0	N 22 30.1	294 09.6	N 22 06.2	20 27.5	S 6 50.1	94 10.8	S 28 29.3	57.8	Acruz	173 01.0	S 63 14.3	
04	25 02.6	238 56.1	N 13 35.4	219 37.6	N 7 44.6	308 24.7	N 22 30.3	309 11.7	N 22 06.2	35 30.1	S 6 50.2	108 34.9	S 28 28.0	57.9	Adhara	255 06.5	S 29 00.1	
05	40 05.1	253 56.2	N 13 34.6	234 37.2	N 7 43.3	323 25.5	N 22 30.5	324 13.8	N 22 06.2	50 32.7	S 6 50.2	122 58.9	S 28 26.5	57.9	Aldebaran	290 40.2	N 16 33.6	
06	55 07.6	268 56.3	N 13 33.8	249 36.9	N 7 42.1	338 26.2	N 22 30.7	339 15.8	N 22 06.3	65 35.3	S 6 50.3	137 22.9	S 28 24.8	58.0				
07	70 10.0	283 56.5	N 13 33.0	264 36.5	N 7 40.9	353 26.9	N 22 30.8	354 17.9	N 22 06.3	80 38.0	S 6 50.4	151 46.8	S 28 22.9	58.0	Alioth	166 13.5	N 55 49.9	
08	85 12.5	298 56.6	N 13 32.2	279 36.1	N 7 39.7	8 27.6	N 22 31.0	9 19.9	N 22 06.3	95 40.6	S 6 50.4	166 10.7	S 28 20.8	58.0	Alkaid	152 52.4	N 49 11.7	
09	100 15.0	313 56.7	N 13 31.4	294 35.7	N 7 38.5	23 28.4	N 22 31.2	24 22.0	N 22 06.4	110 43.2	S 6 50.5	180 34.6	S 28 18.6	58.1	Alnair	27 32.9	S 46 50.4	
10	115 17.4	328 56.9	N 13 30.6	309 35.4	N 7 37.3	38 29.1	N 22 31.4	39 24.1	N 22 06.4	125 45.8	S 6 50.6	194 58.5	S 28 16.1	58.1	Alnilam	275 38.3	S 1 11.0	
11	130 19.9	343 57.0	N 13 29.8	324 35.0	N 7 36.0	53 29.8	N 22 31.6	54 26.1	N 22 06.5	140 48.4	S 6 50.7	209 22.3	S 28 13.5	58.1	Alphard	217 48.4	S 8 45.8	
12	145 22.4	358 57.1	N 13 29.0	339 34.6	N 7 34.8	68 30.5	N 22 31.8	69 28.2	N 22 06.5	155 51.0	S 6 50.7	223 46.1	S 28 10.7	58.2				
13	160 24.8	13 57.3	N 13 28.2	354 34.2	N 7 33.6	83 31.3	N 22 32.0	84 30.2	N 22 06.5	170 53.6	S 6 50.8	238 09.9	S 28 07.7	58.2	Alphecca	126 03.9	N 26 38.1	
14	175 27.3	28 57.4	N 13 27.5	9 33.9	N 7 32.4	98 32.0	N 22 32.1	99 32.3	N 22 06.6	185 56.3	S 6 50.9	252 33.7	S 28 04.6	58.3	Alpheratz	357 34.9	N 29 13.5	
15	190 29.8	43 57.5	N 13 26.7	24 33.5	N 7 31.2	113 32.7	N 22 32.3	114 34.4	N 22 06.6	200 58.9	S 6 50.9	266 57.4	S 28 01.2	58.3	Altair	62 00.0	N 8 56.1	
16	205 32.2	58 57.7	N 13 25.9	39 33.1	N 7 30.0	128 33.4	N 22 32.5	129 36.4	N 22 06.6	216 01.5	S 6 51.0	281 21.2	S 27 57.7	58.3	Ankaa	353 07.2	S 42 10.1	
17	220 34.7	73 57.8	N 13 25.1	54 32.7	N 7 28.7	143 34.1	N 22 32.7	144 38.5	N 22 06.7	231 04.1	S 6 51.1	295 44.9	S 27 53.9	58.4	Antares	112 16.1	S 26 29.3	
18	235 37.1	88 57.9	N 13 24.3	69 32.4	N 7 27.5	158 34.9	N 22 32.9	159 40.5	N 22 06.7	246 06.7	S 6 51.2	310 08.7	S 27 50.0	58.4				
19	250 39.6	103 58.1	N 13 23.5	84 32.0	N 7 26.3	173 35.6	N 22 33.1	174 42.6	N 22 06.7	261 09.3	S 6 51.2	324 32.4	S 27 45.9	58.5	Arcturus	145 48.3	N 19 03.4	
20	265 42.1	118 58.2	N 13 22.7	99 31.6	N 7 25.1	188 36.3	N 22 33.3	189 44.7	N 22 06.8	276 12.0	S 6 51.3	338 56.1	S 27 41.6	58.5	Atria	107 10.3	S 69 04.5	
21	280 44.5	133 58.3	N 13 21.9	114 31.2	N 7 23.9	203 37.0	N 22 33.4	204 46.7	N 22 06.8	291 14.6	S 6 51.4	353 19.9	S 27 37.2	58.5	Avior	234 15.6	S 59 35.2	
22	295 47.0	148 58.5	N 13 21.1	129 30.9	N 7 22.6	218 37.8	N 22 33.6	219 48.8	N 22 06.8	306 17.2	S 6 51.4	7 43.6	S 27 32.5	58.6	Bellatrix	278 23.5	N 6 22.4	
23	310 49.5	163 58.6	N 13 20.3	144 30.5	N 7 21.4	233 38.5	N 22 33.8	234 50.9	N 22 06.9	321 19.8	S 6 51.5	22 07.3	S 27 27.7	58.6	Betelgeuse	270 52.7	N 7 24.8	
17 00	325 51.9	178 58.7	N 13 19.5	159 30.1	N 7 20.2	248 39.2	N 22 34.0	249 52.9	N 22 06.9	336 22.4	S 6 51.6	36 31.1	S 27 22.6	58.6	Canopus	263 53.0	S 52 42.2	
01	340 54.4	193 58.9	N 13 18.7	174 29.8	N 7 19.0	263 39.9	N 22 34.2	264 55.0	N 22 06.9	351 25.0	S 6 51.6	50 54.8	S 27 17.4	58.7	Capella	280 22.7	N 46 01.2	
02	355 56.9	208 59.0	N 13 17.9	189 29.4	N 7 17.7	278 40.7	N 22 34.3	279 57.0	N 22 07.0	6 27.7	S 6 51.7	65 18.6	S 27 12.0	58.7	Castor	245 57.9	N 31 50.1	
03	10 59.3	223 59.2	N 13 17.1	204 29.0	N 7 16.5	293 41.4	N 22 34.5	294 59.1	N 22 07.0	21 30.3	S 6 51.8	79 42.3	S 27 06.4	58.8	Deneb	49 25.6	N 45 22.1	
04	26 01.8	238 59.3	N 13 16.3	219 28.6	N 7 15.3	308 42.1	N 22 34.7	310 01.2	N 22 07.1	36 32.9	S 6 51.9	94 06.1	S 27 00.7	58.8	Denebola	182 25.5	N 44 26.2	
05	41 04.3	253 59.4	N 13 15.5	234 28.3	N 7 14.1	323 42.8	N 22 34.9	325 03.2	N 22 07.1	51 35.5	S 6 51.9	108 29.9	S 26 54.7	58.8				
06	56 06.7	268 59.6	N 13 14.7	249 27.9	N 7 12.9	338 43.6	N 22 35.1	340 05.3	N 22 07.1	66 38.1	S 6 52.0	122 53.7	S 26 48.6	58.9	Diphda	348 47.4	S 17 50.9	
07	71 09.2	283 59.7	N 13 13.9	264 27.5	N 7 11.6	353 44.3	N 22 35.3	355 07.4	N 22 07.2	81 40.7	S 6 52.1	137 17.6	S 26 42.2	58.9	Dubhe	193 41.9	N 61 37.3	
08	86 11.6	298 59.8	N 13 13.0	279 27.2	N 7 10.4	8 45.0	N 22 35.4	10 09.4	N 22 07.2	96 43.4	S 6 52.1	151 41.4	S 26 35.7	58.9	Elnath	278 02.5	N 28 37.7	
09	101 14.1	314 00.0	N 13 12.2	294 26.8	N 7 09.2	23 45.7	N 22 35.6	25 11.5	N 22 07.2	111 46.0	S 6 52.2	166 05.3	S 26 29.1	59.0	Etamin	90 42.0	N 51 29.3	
10	116 16.6	329 00.1	N 13 11.4	309 26.4	N 7 08.0	38 46.5	N 22 35.8	40 13.6	N 22 07.3	126 48.6	S 6 52.3	180 29.9	S 26 22.2	59.0	Enif	33 38.8	N 9 59.3	
11	131 19.0	344 00.3	N 13 10.6	324 26.1	N 7 06.7	53 47.2	N 22 36.0	55 15.6	N 22 07.3	141 51.2	S 6 52.4	194 53.2	S 26 15.1	59.0				
12	146 21.5	359 00.4	N 13 09.8	339 25.7	N 7 05.5	68 47.9	N 22 36.1	70 17.7	N 22 07.3	156 53.8	S 6 52.4	209 17.1	S 26 07.9	59.1	Fomalhaut	15 14.6	S 29 29.4	
13	161 24.0	14 00.5	N 13 09.0	354 25.3	N 7 04.3	83 48.7	N 22 36.3	85 19.8	N 22 07.4	171 56.4	S 6 52.5	223 41.1	S 26 00.5	59.1	Gacrux	171 52.4	S 59 15.2	
14	176 26.4	29 00.7	N 13 08.2	9 25.0	N 7 03.1	98 49.4	N 22 36.5	100 21.8	N 22 07.4	186 59.1	S 6 52.6	238 05.2	S 25 52.9	59.1	Gienah	175 44.2	S 17 40.7	
15	191 28.9	44 00.8	N 13 07.4	24 24.6	N 7 01.8	113 50.1	N 22 36.7	115 23.9	N 22 07.4	202 01.7	S 6 52.6	252 29.2	S 25 45.2	59.2	Hadar	148 36.7	S 60 29.7	
16	206 31.4	59 00.9	N 13 06.6	39 24.2	N 7 00.6	128 50.8	N 22 36.9	130 26.0	N 22 07.5	217 04.3	S 6 52.7	266 53.3	S 25 37.2	59.2	Hamal	327 51.5	N 23 34.7	
17	221 33.8	74 01.1	N 13 05.8	54 23.9	N 6 59.4	143 51.6	N 22 37.0	145 28.0	N 22 07.5	232 06.9	S 6 52.8	281 17.5	S 25 29.1	59.3				
18	236 36.8	89 01.2	N 13 05.0	69 23.5	N 6 58.2	158 52.3	N 22 37.2	160 30.1	N 22 07.5	247 09.5	S 6 52.9	295 41.7	S 25 20.8	59.3	Kaus aust.	83 32.6	S 34 22.4	
19	251 38.8	104 01.4	N 13 04.2	84 23.1	N 6 56.9	173 53.0	N 22 37.4	175 32.2	N 22 07.6	262 12.2	S 6 52.9	310 05.9	S 25 12.3	59.3	Kochab	137 19.7	N 74 03.5	
20	266 41.2	119 01.5	N 13 03.4	99 22.8	N 6 55.7	188 53.7	N 22 37.6	190 34.2	N 22 07.6	277 14.8	S 6 53.0	324 30.2	S 25 03.7	59.4	Markab	13 30.0	N 15 20.3	
21	281 43.7	134 01.6	N 13 02.6	114 22.4	N 6 54.5	203 54.5	N 22 37.7	205 36.3	N 22 07.6	292 17.4	S 6 53.1	338 54.5	S 24 54.9	59.4	Menkar	314 06.5	N 4 11.3	
22	296 46.1	149 01.8	N 13 01.8	129 22.0	N 6 53.2	218 55.2	N 22 37.9	220 38.4	N 22 07.7	307 20.0	S 6 53.2	353 18.8	S 24 45.9	59.4	Menkent	147 58.1	S 36 29.6	
23	311 48.6	164 01.9	N 13 01.0	144 21.7	N 6 52.0	233 55.9	N 22 38.1	235 40.4	N 22 07.7	322 22.6	S 6 53.2	7 43.3	S 24 36.7	59.5				
18 00	326 51.1	179 02.1	N 13 00.1	159 21.3	N 6 50.8	248 56.7	N 22 38.3	250 42.5	N 22 07.7	337 25.2	S 6 53.3	22 07.7	S 24 27.4	59.5	Miaplacidus	221 39.4	S 69 49.0	
01	341 53.5	194 02.2	N 12 59.3	174 20.9	N 6 49.6	263 57.4	N 22 38.4	265 44.6	N 22 07.8	352 27.9	S 6 53.4	36 32.2	S 24 17.9	59.5				

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	AGOSTO	10					
d h	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "					
19 00	327 50.2	179 05.5	N 12 40.6	159 12.6	N 6 21.2	249 14.2	N 22 42.4	251 32.2	N 22 08.6	338 28.1	S 6 55.0	8 12.4	S 19 55.5	60.2	NOME	360 - AR	Dec.
01	342 52.7	194 05.7	N 12 39.8	174 12.3	N 6 20.0	264 14.9	N 22 42.5	266 34.3	N 22 08.6	353 30.7	S 6 55.1	22 38.4	S 19 42.3	60.2	Acamar	315 12.0	S 40 12.0
02	357 55.1	209 05.8	N 12 39.0	189 11.9	N 6 18.7	279 15.6	N 22 42.7	281 36.4	N 22 08.6	8 33.4	S 6 55.2	37 04.5	S 19 29.0	60.2	Achernar	335 20.2	S 57 06.4
03	12 57.6	224 06.0	N 12 38.2	204 11.6	N 6 17.5	294 16.4	N 22 42.9	296 38.4	N 22 08.7	23 36.0	S 6 55.2	51 30.7	S 19 15.6	60.3	AcruX	173 01.0	S 63 14.3
04	28 00.1	239 06.1	N 12 37.4	219 11.2	N 6 16.2	309 17.1	N 22 43.0	311 40.5	N 22 08.7	38 38.6	S 6 55.3	65 56.9	S 19 02.0	60.3	Adhara	255 06.5	S 29 00.1
05	43 02.5	254 06.3	N 12 36.5	234 10.8	N 6 15.0	324 17.8	N 22 43.2	326 42.6	N 22 08.7	53 41.2	S 6 55.4	80 23.2	S 18 48.3	60.3	Aldebaran	290 40.1	N 16 33.6
06	58 05.0	269 06.4	N 12 35.7	249 10.5	N 6 13.8	339 18.6	N 22 43.4	341 44.7	N 22 08.8	68 43.8	S 6 55.5	94 49.6	S 18 34.5	60.3			
07	73 07.5	284 06.6	N 12 34.9	264 10.1	N 6 12.5	354 19.3	N 22 43.5	356 46.7	N 22 08.8	83 46.5	S 6 55.5	109 16.0	S 18 20.5	60.4	Alioth	166 13.5	N 55 49.9
08	88 09.9	299 06.7	N 12 34.1	279 09.8	N 6 11.3	9 20.0	N 22 43.7	11 48.8	N 22 08.8	98 49.1	S 6 55.6	123 42.5	S 18 06.4	60.4	Alkaid	152 52.4	N 49 11.7
09	103 12.4	314 06.9	N 12 33.3	294 09.4	N 6 10.0	24 20.8	N 22 43.8	26 50.9	N 22 08.9	113 51.7	S 6 55.7	138 09.1	S 17 52.3	60.4	Alnair	27 32.8	S 46 50.4
10	118 14.9	329 07.0	N 12 32.4	309 09.1	N 6 08.8	39 21.5	N 22 44.0	41 53.0	N 22 08.9	128 54.3	S 6 55.8	152 35.7	S 17 37.9	60.4	Alnilam	275 38.3	S 1 11.0
11	133 17.3	344 07.1	N 12 31.6	324 08.7	N 6 07.6	54 22.2	N 22 44.2	56 55.0	N 22 08.9	143 56.9	S 6 55.8	167 02.5	S 17 23.5	60.4	Alphard	217 48.4	S 8 45.8
12	148 19.8	359 07.3	N 12 30.8	339 08.4	N 6 06.3	69 23.0	N 22 44.3	71 57.1	N 22 09.0	158 59.6	S 6 55.9	181 29.2	S 17 09.0	60.5			
13	163 22.2	14 07.4	N 12 30.0	354 08.0	N 6 05.1	84 23.7	N 22 44.5	86 59.2	N 22 09.0	174 02.2	S 6 56.0	195 56.1	S 16 54.3	60.5	Alphecca	126 04.0	N 26 38.1
14	178 24.7	29 07.6	N 12 29.1	9 07.6	N 6 03.8	99 24.4	N 22 44.7	102 01.3	N 22 09.0	189 04.8	S 6 56.0	210 23.0	S 16 39.5	60.5	Alpheratz	357 34.9	N 29 13.5
15	193 27.2	44 07.7	N 12 28.3	24 07.3	N 6 02.6	114 25.2	N 22 44.8	117 03.4	N 22 09.1	204 07.4	S 6 56.1	224 50.0	S 16 24.6	60.5	Altair	62 00.0	N 8 56.1
16	208 29.6	59 07.9	N 12 27.5	39 06.9	N 6 01.4	129 25.9	N 22 45.0	132 05.4	N 22 09.1	219 10.1	S 6 56.2	239 17.1	S 16 09.6	60.5	Ankaa	353 07.2	S 42 10.1
17	223 32.1	74 08.0	N 12 26.7	54 06.6	N 6 00.1	144 26.7	N 22 45.1	147 07.5	N 22 09.1	234 12.7	S 6 56.3	253 44.2	S 15 54.5	60.6	Antares	112 16.1	S 26 29.2
18	238 34.6	89 08.2	N 12 25.9	69 06.2	N 5 58.9	159 27.4	N 22 45.3	162 09.6	N 22 09.2	249 15.3	S 6 56.3	268 11.4	S 15 39.3	60.6			
19	253 37.0	104 08.3	N 12 25.0	84 05.9	N 5 57.6	174 28.1	N 22 45.5	177 11.7	N 22 09.2	264 17.9	S 6 56.4	282 38.7	S 15 24.0	60.6	Arcturus	145 48.3	N 19 03.4
20	268 39.5	119 08.5	N 12 24.2	99 05.5	N 5 56.4	189 28.9	N 22 45.6	192 13.8	N 22 09.2	279 20.5	S 6 56.5	297 06.0	S 15 08.6	60.6	Atria	107 10.4	S 69 04.5
21	283 42.0	134 08.6	N 12 23.4	114 05.2	N 5 55.2	204 29.6	N 22 45.8	207 15.8	N 22 09.3	294 23.2	S 6 56.6	311 33.5	S 14 53.1	60.6	Avior	234 15.5	S 59 35.1
22	298 44.4	149 08.8	N 12 22.6	129 04.8	N 5 53.9	219 30.3	N 22 46.0	222 17.9	N 22 09.3	309 25.8	S 6 56.6	326 00.9	S 14 37.5	60.6	Bellatrix	278 23.4	N 6 22.4
23	313 46.9	164 08.9	N 12 21.7	144 04.5	N 5 52.7	234 31.1	N 22 46.1	237 20.0	N 22 09.3	324 28.4	S 6 56.7	340 28.5	S 14 21.8	60.7	Betelgeuse	270 52.7	N 7 24.8
20 00	328 49.4	179 09.1	N 12 20.9	159 04.1	N 5 51.4	249 31.8	N 22 46.3	252 22.1	N 22 09.4	339 31.0	S 6 56.8	354 56.1	S 14 06.0	60.7	Canopus	263 53.0	S 52 42.2
01	343 51.8	194 09.3	N 12 20.1	174 03.8	N 5 50.2	264 32.5	N 22 46.4	267 24.1	N 22 09.4	354 33.6	S 6 56.8	9 23.7	S 13 50.1	60.7	Capella	280 22.7	N 46 01.2
02	358 54.3	209 09.4	N 12 19.3	189 03.4	N 5 48.9	279 33.3	N 22 46.6	282 26.2	N 22 09.4	9 36.3	S 6 56.9	23 51.5	S 13 34.2	60.7	Castor	245 57.8	N 31 50.1
03	13 56.7	224 09.6	N 12 18.4	204 03.1	N 5 47.7	294 34.0	N 22 46.7	297 28.3	N 22 09.4	24 38.9	S 6 57.0	38 19.3	S 13 18.1	60.7	Deneb	49 25.6	N 45 22.1
04	28 59.2	239 09.7	N 12 17.6	219 02.7	N 5 46.5	309 34.7	N 22 46.9	312 30.4	N 22 09.5	39 41.5	S 6 57.1	52 47.1	S 13 02.0	60.7	Denebola	182 25.5	N 44 26.2
05	44 01.7	254 09.9	N 12 16.8	234 02.4	N 5 45.2	324 35.5	N 22 47.1	327 32.5	N 22 09.5	54 44.1	S 6 57.1	67 15.0	S 12 45.7	60.7			
06	59 04.1	269 10.0	N 12 15.9	249 02.0	N 5 44.0	339 36.2	N 22 47.2	342 34.6	N 22 09.5	69 46.8	S 6 57.2	81 43.0	S 12 29.4	60.7	Diphda	348 47.4	S 17 50.9
07	74 06.6	284 10.2	N 12 15.1	264 01.7	N 5 42.7	354 37.0	N 22 47.4	357 36.6	N 22 09.6	84 49.4	S 6 57.3	96 11.0	S 12 13.0	60.8	Dubhe	193 42.0	N 61 37.3
08	89 09.1	299 10.3	N 12 14.3	279 01.3	N 5 41.5	9 37.7	N 22 47.5	12 38.7	N 22 09.6	99 52.0	S 6 57.4	110 39.1	S 11 56.6	60.8	Elnath	278 02.5	N 28 37.7
09	104 11.5	314 10.5	N 12 13.5	294 01.0	N 5 40.2	24 38.4	N 22 47.7	27 40.8	N 22 09.6	114 54.6	S 6 57.4	125 07.3	S 11 40.0	60.8	Etamin	90 42.0	N 51 29.3
10	119 14.0	329 10.6	N 12 12.6	309 00.6	N 5 39.0	39 39.2	N 22 47.8	42 42.9	N 22 09.7	129 57.3	S 6 57.5	139 35.5	S 11 23.4	60.8	Enif	33 38.8	N 9 59.3
11	134 16.5	344 10.8	N 12 11.8	324 00.3	N 5 37.7	54 39.9	N 22 48.0	57 45.0	N 22 09.7	144 59.9	S 6 57.6	154 03.8	S 11 06.7	60.8			
12	149 18.9	359 10.9	N 12 11.0	338 59.9	N 5 36.5	69 40.6	N 22 48.2	72 47.0	N 22 09.7	160 02.5	S 6 57.7	168 32.1	S 10 50.0	60.8	Fomalhaut	15 14.5	S 29 29.4
13	164 21.4	14 11.1	N 12 10.1	353 59.6	N 5 35.2	84 41.4	N 22 48.3	87 49.1	N 22 09.8	175 05.1	S 6 57.7	183 00.5	S 10 33.2	60.8	Gacrux	171 52.4	S 57 15.2
14	179 23.8	29 11.2	N 12 09.3	8 59.2	N 5 34.0	99 42.1	N 22 48.5	102 51.2	N 22 09.8	190 07.7	S 6 57.8	197 28.9	S 10 16.3	60.8	Gienah	175 44.2	S 17 40.7
15	194 26.3	44 11.4	N 12 08.5	23 58.9	N 5 32.7	114 42.9	N 22 48.6	117 53.3	N 22 09.8	205 10.4	S 6 57.9	211 57.4	S 9 59.3	60.8	Hadar	148 36.7	S 60 29.7
16	209 28.8	59 11.5	N 12 07.7	38 58.5	N 5 31.5	129 43.6	N 22 48.8	132 55.4	N 22 09.9	220 13.0	S 6 57.9	226 26.0	S 9 42.3	60.8	Hamal	327 51.5	N 23 34.7
17	224 31.2	74 11.7	N 12 06.8	53 58.2	N 5 30.2	144 44.3	N 22 48.9	147 57.5	N 22 09.9	235 15.6	S 6 58.0	240 54.5	S 9 25.3	60.8			
18	239 33.7	89 11.9	N 12 06.0	68 57.8	N 5 29.0	159 45.1	N 22 49.1	162 59.5	N 22 09.9	250 18.2	S 6 58.1	255 23.2	S 9 08.1	60.8	Kaus aust.	83 32.6	S 34 22.4
19	254 36.2	104 12.0	N 12 05.2	83 57.5	N 5 27.8	174 45.8	N 22 49.2	178 01.6	N 22 10.0	265 20.9	S 6 58.2	269 51.9	S 8 50.9	60.9	Kochab	137 19.8	N 74 03.5
20	269 38.6	119 12.2	N 12 04.3	98 57.1	N 5 26.5	189 46.5	N 22 49.4	193 03.7	N 22 10.0	280 23.5	S 6 58.2	284 20.6	S 8 33.7	60.9	Markab	13 29.9	N 15 20.3
21	284 41.1	134 12.3	N 12 03.5	113 56.8	N 5 25.3	204 47.3	N 22 49.5	208 05.8	N 22 10.0	295 26.1	S 6 58.3	298 49.4	S 8 16.4	60.9	Menkar	314 06.5	N 4 11.3
22	299 43.6	149 12.5	N 12 02.7	128 56.4	N 5 24.0	219 48.0	N 22 49.7	223 07.9	N 22 10.1	310 28.7	S 6 58.4	313 18.2	S 7 59.1	60.9	Menkent	147 58.1	S 36 29.6
23	314 46.0	164 12.6	N 12 01.8	143 56.1	N 5 22.8	234 48.8	N 22 49.9	238 10.0	N 22 10.1	325 31.4	S 6 58.5	327 47.1	S 7 41.7	60.9			
21 00	329 48.5	179 12.8	N 12 01.0	158 55.7	N 5 21.5	249 49.5	N 22 50.0	253 12.1	N 22 10.1	340 34.0	S 6 58.5	342 16.0	S 7 24.3	60.9	Miaplacidus	221 39.4	S 69 49.0
01	344 51.0	194 12.9	N 12 00.2	173 55.4	N 5 20.3	264 50.2	N 22 50.2	268 14.1	N 22 10.2	355 36.6	S 6 58.6	356 45.0	S 7 06.8	60.9	Mirfak	308 28.8	N 49 56.7
02	359 53.4	209 13.1	N 11 59.3	188 55.0	N 5 19.0	279 51.0	N 22 50.3	283 16.2	N 22 10.2	10 39.2	S 6 58.7	11 14.0	S 6 49.3	60.9	Mizar	158 46.4	N 54 48.1
03	14 55.9	224 13.3	N 11 58														

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	AGOSTO	13
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
22 00	330 47.6	179 16.6	N 11 40.9	158 47.5	N 4 51.4	250 07.3	N 22 53.6	254 02.2	N 22 10.9	341 37.0	S 7 00.3	330 00.4	S 0 17.9	60.8	NOME	360	- AR	Dec.
01	345 50.1	194 16.8	N 11 40.1	173 47.2	N 4 50.2	265 08.0	N 22 53.7	269 04.3	N 22 10.9	356 39.6	S 7 00.4	344 30.0	N 0 00.0	60.8	Acamar	315 12.0	S 40 12.0	
02	0 52.6	209 16.9	N 11 39.2	188 46.8	N 4 48.9	280 08.8	N 22 53.8	284 06.4	N 22 10.9	11 42.2	S 7 00.5	358 59.6	N 0 17.9	60.8	Achernar	335 20.1	S 57 06.4	
03	15 55.0	224 17.1	N 11 38.4	203 46.5	N 4 47.7	295 09.5	N 22 54.0	299 08.4	N 22 11.0	26 44.9	S 7 00.5	13 29.3	N 0 35.8	60.8	Acruir	173 01.0	S 63 14.3	
04	30 57.5	239 17.2	N 11 37.5	218 46.1	N 4 46.4	310 10.3	N 22 54.1	314 10.5	N 22 11.0	41 47.5	S 7 00.6	27 59.0	N 0 53.7	60.7	Adhara	255 06.4	S 29 00.1	
05	45 59.9	254 17.4	N 11 36.7	233 45.8	N 4 45.2	325 11.0	N 22 54.3	329 12.6	N 22 11.0	56 50.1	S 7 00.7	42 28.7	N 1 11.5	60.7	Aldebaran	290 40.1	N 16 33.6	
06	61 02.4	269 17.6	N 11 35.8	248 45.5	N 4 43.9	340 11.8	N 22 54.4	344 14.7	N 22 11.1	71 52.7	S 7 00.8	56 58.3	N 1 29.4	60.7				
07	76 04.9	284 17.7	N 11 35.0	263 45.1	N 4 42.6	355 12.5	N 22 54.6	359 16.8	N 22 11.1	86 55.4	S 7 00.8	71 28.0	N 1 47.2	60.7	Alioth	166 13.6	N 55 49.9	
08	91 07.3	299 17.9	N 11 34.1	278 44.8	N 4 41.4	10 13.3	N 22 54.7	14 18.9	N 22 11.1	101 58.0	S 7 00.9	85 57.7	N 2 05.0	60.7	Alkaid	152 52.4	N 49 11.7	
09	106 09.8	314 18.1	N 11 33.3	293 44.4	N 4 40.1	25 14.0	N 22 54.8	29 21.0	N 22 11.1	117 00.6	S 7 01.0	100 27.4	N 2 22.8	60.7	Alnair	27 32.8	S 46 50.4	
10	121 12.3	329 18.2	N 11 32.5	308 44.1	N 4 38.9	40 14.7	N 22 55.0	44 23.1	N 22 11.2	132 03.2	S 7 01.0	114 57.1	N 2 40.6	60.7	Alnilam	275 38.3	S 1 11.0	
11	136 14.7	344 18.4	N 11 31.6	323 43.8	N 4 37.6	55 15.5	N 22 55.1	59 25.2	N 22 11.2	147 05.9	S 7 01.1	129 26.8	N 2 58.3	60.7	Alphard	217 48.4	S 8 45.8	
12	151 17.2	359 18.5	N 11 30.8	338 43.4	N 4 36.4	70 16.2	N 22 55.3	74 27.3	N 22 11.2	162 08.5	S 7 01.2	143 56.5	N 3 16.1	60.6				
13	166 19.7	14 18.7	N 11 29.9	353 43.1	N 4 35.1	85 17.0	N 22 55.4	89 29.4	N 22 11.3	177 11.1	S 7 01.3	158 26.2	N 3 33.8	60.6	Alphecca	126 04.0	N 26 38.1	
14	181 22.1	29 18.9	N 11 29.1	8 42.7	N 4 33.8	100 17.7	N 22 55.5	104 31.5	N 22 11.3	192 13.7	S 7 01.3	172 55.9	N 3 51.4	60.6	Alpheratz	357 34.9	N 29 13.5	
15	196 24.6	44 19.0	N 11 28.2	23 42.4	N 4 32.6	115 18.5	N 22 55.7	119 33.6	N 22 11.3	207 16.4	S 7 01.4	187 25.6	N 4 09.1	60.6	Altair	62 00.0	N 8 56.1	
16	211 27.0	59 19.2	N 11 27.4	38 42.1	N 4 31.3	130 19.2	N 22 55.8	134 35.3	N 22 11.4	222 19.0	S 7 01.5	201 55.3	N 4 26.7	60.6	Ankaa	353 07.2	S 42 10.1	
17	226 29.5	74 19.4	N 11 26.5	53 41.7	N 4 30.1	145 20.0	N 22 56.0	149 37.8	N 22 11.4	237 21.6	S 7 01.6	216 25.0	N 4 44.2	60.6	Antares	112 16.1	S 26 29.2	
18	241 32.0	89 19.5	N 11 25.7	68 41.4	N 4 28.8	160 20.7	N 22 56.1	164 39.9	N 22 11.4	252 24.3	S 7 01.6	230 54.7	N 5 01.8	60.6				
19	256 34.4	104 19.7	N 11 24.8	83 41.1	N 4 27.5	175 21.5	N 22 56.2	179 42.0	N 22 11.4	267 26.9	S 7 01.7	245 24.3	N 5 19.3	60.5	Arcturus	145 48.3	N 19 03.4	
20	271 36.9	119 19.9	N 11 24.0	98 40.7	N 4 26.3	190 22.2	N 22 56.4	194 44.0	N 22 11.5	282 29.5	S 7 01.8	259 54.0	N 5 36.7	60.5	Atria	107 10.4	S 69 04.5	
21	286 39.4	134 20.0	N 11 23.1	113 40.4	N 4 25.0	205 23.0	N 22 56.5	209 46.1	N 22 11.5	297 32.1	S 7 01.9	274 23.6	N 5 54.1	60.5	Avior	234 15.5	S 59 35.1	
22	301 41.8	149 20.2	N 11 22.3	128 40.0	N 4 23.8	220 23.7	N 22 56.7	224 48.2	N 22 11.5	312 34.8	S 7 01.9	288 53.3	N 6 11.5	60.5	Bellatrix	278 23.4	N 6 22.4	
23	316 44.3	164 20.3	N 11 21.5	143 39.7	N 4 22.5	235 24.4	N 22 56.8	239 50.3	N 22 11.6	327 37.4	S 7 02.0	303 22.9	N 6 28.8	60.5	Betelgeuse	270 52.7	N 7 24.8	
23 00	331 46.8	179 20.5	N 11 20.6	158 39.4	N 4 21.2	250 25.2	N 22 56.9	254 52.4	N 22 11.6	342 40.0	S 7 02.1	317 52.5	N 6 46.1	60.4	Canopus	263 52.9	S 52 42.2	
01	346 49.2	194 20.7	N 11 19.8	173 39.0	N 4 20.0	265 25.9	N 22 57.1	269 54.5	N 22 11.6	357 42.6	S 7 02.2	332 22.1	N 7 03.3	60.4	Capella	280 22.6	N 46 01.2	
02	1 51.7	209 20.8	N 11 18.9	188 38.7	N 4 18.7	280 26.7	N 22 57.2	284 56.6	N 22 11.7	12 45.3	S 7 02.2	346 51.7	N 7 20.5	60.4	Castor	245 57.8	N 31 50.1	
03	16 54.2	224 21.0	N 11 18.1	203 38.4	N 4 17.4	295 27.4	N 22 57.3	299 58.7	N 22 11.7	27 47.9	S 7 02.3	1 21.2	N 7 37.6	60.4	Deneb	49 25.6	N 45 22.1	
04	31 56.6	239 21.2	N 11 17.2	218 38.0	N 4 16.2	310 28.2	N 22 57.5	315 00.8	N 22 11.7	42 50.5	S 7 02.4	15 50.7	N 7 54.7	60.4	Denebola	182 25.5	N 44 26.2	
05	46 59.1	254 21.3	N 11 16.4	233 37.7	N 4 14.9	325 28.9	N 22 57.6	330 02.9	N 22 11.7	57 53.2	S 7 02.5	30 20.2	N 8 11.7	60.4				
06	62 01.5	269 21.5	N 11 15.5	248 37.4	N 4 13.7	340 29.7	N 22 57.7	345 05.0	N 22 11.8	72 55.8	S 7 02.5	44 49.7	N 8 28.7	60.3	Diphda	348 47.4	S 17 50.9	
07	77 04.0	284 21.7	N 11 14.7	263 37.0	N 4 12.4	355 30.4	N 22 57.9	0 07.1	N 22 11.8	87 58.4	S 7 02.6	59 19.2	N 8 45.6	60.3	Dubhe	193 42.0	N 61 37.3	
08	92 06.5	299 21.8	N 11 13.8	278 36.7	N 4 11.1	10 31.2	N 22 58.0	15 09.2	N 22 11.8	103 01.0	S 7 02.7	73 48.6	N 9 02.4	60.3	Elnath	278 02.5	N 28 37.7	
09	107 08.9	314 22.0	N 11 12.9	293 36.4	N 4 09.9	25 31.9	N 22 58.1	30 11.3	N 22 11.9	118 03.7	S 7 02.8	88 18.0	N 9 19.2	60.3	Etamin	90 42.0	N 51 29.3	
10	122 11.4	329 22.2	N 11 12.1	308 36.0	N 4 08.6	40 32.7	N 22 58.3	45 13.4	N 22 11.9	133 06.3	S 7 02.8	102 47.4	N 9 35.9	60.2	Enif	33 38.8	N 9 59.3	
11	137 13.9	344 22.3	N 11 11.2	323 35.7	N 4 07.3	55 33.4	N 22 58.4	60 15.5	N 22 11.9	148 08.9	S 7 02.9	117 16.8	N 9 52.6	60.2				
12	152 16.3	359 22.5	N 11 10.4	338 35.3	N 4 06.1	70 34.2	N 22 58.5	75 17.6	N 22 12.0	163 11.5	S 7 03.0	131 46.1	N 10 09.2	60.2	Fomalhaut	15 14.5	S 29 29.4	
13	167 18.8	14 22.7	N 11 09.5	353 35.0	N 4 04.8	85 34.9	N 22 58.7	90 19.7	N 22 12.0	178 14.2	S 7 03.1	146 15.4	N 10 25.7	60.2	Gacrux	171 52.5	S 57 15.2	
14	182 21.3	29 22.8	N 11 08.7	8 34.7	N 4 03.6	100 35.7	N 22 58.8	105 21.8	N 22 12.0	193 16.8	S 7 03.1	160 44.7	N 10 42.1	60.2	Gienah	175 44.2	S 17 40.7	
15	197 23.7	44 23.0	N 11 07.8	23 34.3	N 4 02.3	115 36.4	N 22 58.9	120 23.9	N 22 12.0	208 19.4	S 7 03.2	175 13.9	N 10 58.5	60.1	Hadar	148 36.7	S 60 29.7	
16	212 26.2	59 23.2	N 11 07.0	38 34.0	N 4 01.0	130 37.2	N 22 59.1	135 26.0	N 22 12.1	223 22.1	S 7 03.3	189 43.1	N 11 14.8	60.1	Hamal	327 51.5	N 23 34.7	
17	227 28.7	74 23.4	N 11 06.1	53 33.7	N 3 59.8	145 37.9	N 22 59.2	150 28.1	N 22 12.1	238 24.7	S 7 03.4	204 12.3	N 11 31.0	60.1				
18	242 31.1	89 23.5	N 11 05.3	68 33.3	N 3 58.5	160 38.7	N 22 59.3	165 30.2	N 22 12.1	253 27.3	S 7 03.4	218 41.4	N 11 47.1	60.1	Kaus aust.	83 32.7	S 34 22.4	
19	257 33.6	104 23.7	N 11 04.4	83 33.0	N 3 57.2	175 39.4	N 22 59.5	180 32.3	N 22 12.2	268 29.9	S 7 03.5	233 10.5	N 12 03.2	60.0	Kochab	137 19.8	N 74 03.5	
20	272 36.0	119 23.9	N 11 03.6	98 32.7	N 3 56.0	190 40.2	N 22 59.6	195 34.4	N 22 12.2	283 32.6	S 7 03.6	247 39.6	N 12 19.2	60.0	Markab	13 29.9	N 15 20.3	
21	287 38.5	134 24.0	N 11 02.7	113 32.3	N 3 54.7	205 40.9	N 22 59.7	210 36.5	N 22 12.2	298 35.2	S 7 03.7	262 08.6	N 12 35.1	60.0	Menkar	314 06.5	N 4 11.3	
22	302 41.0	149 24.2	N 11 01.8	128 32.0	N 3 53.4	220 41.7	N 22 59.9	225 38.6	N 22 12.2	313 37.8	S 7 03.7	276 37.6	N 12 50.9	60.0	Menkent	147 58.1	S 36 29.6	
23	317 43.4	164 24.4	N 11 01.0	143 31.7	N 3 52.2	235 42.4	N 23 00.0	240 40.7	N 22 12.3	328 40.5	S 7 03.8	291 06.6	N 13 06.7	59.9				
24 00	332 45.9	179 24.5	N 11 00.1	158 31.4	N 3 50.9	250 43.2	N 23 00.1	255 42.8	N 22 12.3	343 43.1	S 7 03.9	305 35.5	N 13 22.3	59.9	Miaplacidus	221 39.4	S 69 49.0	
01	347 48.4	194 24.7	N 10 59.3	173 31.0	N 3 49.6	265 43.9	N 23 00.2	270 44.9	N 22 12.3	358 45.7	S 7 04.0	320 04.3	N 13 37.9	59.9	Mirfak	308 28.8	N 49	

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	AGOSTO	16
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
25 00	333 45.0	179 28.7	N 10 39.5	158 23.4	N 3 20.5	251 01.3	N 23 03.1	256 33.4	N 22 13.0	344 46.2	S 7 05.7	292 55.1	N 19 08.0	59.2	NOME	360	- AR	Dec.
01	348 47.5	194 28.8	N 10 38.6	173 23.1	N 3 19.2	266 02.0	N 23 03.3	271 35.5	N 22 13.0	359 48.8	S 7 05.8	307 22.8	N 19 21.0	59.2	Acamar	315 11.9	S 40 12.0	
02	3 50.0	209 29.0	N 10 37.8	188 22.8	N 3 17.9	281 02.8	N 23 03.4	286 37.6	N 22 13.0	14 51.5	S 7 05.8	321 50.4	N 19 33.9	59.2	Achernar	335 20.1	S 57 06.4	
03	18 52.4	224 29.2	N 10 36.9	203 22.4	N 3 16.6	296 03.6	N 23 03.5	301 39.7	N 22 13.1	29 54.1	S 7 05.9	336 18.0	N 19 46.7	59.1	AcruX	173 01.0	S 63 14.3	
04	33 54.9	239 29.4	N 10 36.0	218 22.1	N 3 15.4	311 04.3	N 23 03.6	316 41.8	N 22 13.1	44 56.7	S 7 06.0	350 45.5	N 19 59.3	59.1	Adhara	255 06.4	S 29 00.1	
05	48 57.4	254 29.5	N 10 35.2	233 21.8	N 3 14.1	326 05.1	N 23 03.7	331 43.9	N 22 13.1	59 59.4	S 7 06.1	5 12.9	N 20 11.8	59.1	Aldebaran	290 40.1	N 16 33.6	
06	63 59.8	269 29.7	N 10 34.3	248 21.5	N 3 12.8	341 05.8	N 23 03.9	346 46.0	N 22 13.2	75 02.0	S 7 06.1	19 40.3	N 20 24.2	59.1				
07	79 02.3	284 29.9	N 10 33.4	263 21.1	N 3 11.6	356 06.6	N 23 04.0	1 48.2	N 22 13.2	90 04.6	S 7 06.2	34 07.6	N 20 36.4	59.0	Alioth	166 13.6	N 55 49.8	
08	94 04.8	299 30.1	N 10 32.6	278 20.8	N 3 10.3	11 07.3	N 23 04.1	16 50.3	N 22 13.2	105 07.2	S 7 06.3	48 34.9	N 20 48.5	59.0	Alkaid	152 52.4	N 49 11.7	
09	109 07.2	314 30.2	N 10 31.7	293 20.5	N 3 09.0	26 08.1	N 23 04.2	31 52.4	N 22 13.2	120 09.9	S 7 06.4	63 02.1	N 21 00.5	59.0	Alnair	27 32.8	S 46 50.4	
10	124 09.7	329 30.4	N 10 30.8	308 20.2	N 3 07.7	41 08.9	N 23 04.3	46 54.5	N 22 13.3	135 12.5	S 7 06.4	77 29.3	N 21 12.4	58.9	Alnilam	275 38.2	S 1 11.0	
11	139 12.1	344 30.6	N 10 30.0	323 19.8	N 3 06.5	56 09.6	N 23 04.5	61 56.6	N 22 13.3	150 15.1	S 7 06.5	91 56.4	N 21 24.1	58.9	Alphard	217 48.4	S 8 45.8	
12	154 14.6	359 30.8	N 10 29.1	338 19.5	N 3 05.2	71 10.4	N 23 04.6	76 58.7	N 22 13.3	165 17.8	S 7 06.6	106 23.5	N 21 35.6	58.9				
13	169 17.1	14 30.9	N 10 28.2	353 19.2	N 3 03.9	86 11.1	N 23 04.7	92 00.8	N 22 13.4	180 20.4	S 7 06.7	120 50.5	N 21 47.1	58.8	Alphecca	126 04.0	N 26 38.1	
14	184 19.5	29 31.1	N 10 27.4	8 18.9	N 3 02.7	101 11.9	N 23 04.8	107 02.9	N 22 13.4	195 23.0	S 7 06.7	135 17.4	N 21 58.4	58.8	Alpheratz	357 34.8	N 29 13.6	
15	199 22.0	44 31.3	N 10 26.5	23 18.5	N 3 01.4	116 12.7	N 23 04.9	122 05.0	N 22 13.4	210 25.7	S 7 06.8	149 44.3	N 22 09.5	58.8	Altair	62 00.0	N 8 56.1	
16	214 24.5	59 31.5	N 10 25.6	38 18.2	N 3 00.1	131 13.4	N 23 05.1	137 07.2	N 22 13.4	225 28.3	S 7 06.9	164 11.1	N 22 20.6	58.7	Ankaa	353 07.2	S 42 10.1	
17	229 26.9	74 31.6	N 10 24.8	53 17.9	N 2 58.8	146 14.2	N 23 05.2	152 09.3	N 22 13.5	240 30.9	S 7 07.0	178 37.9	N 22 31.4	58.7	Antares	112 16.1	S 26 29.2	
18	244 29.4	89 31.8	N 10 23.9	68 17.6	N 2 57.6	161 14.9	N 23 05.3	167 11.4	N 22 13.5	255 33.6	S 7 07.0	193 04.6	N 22 42.2	58.7				
19	259 31.9	104 32.0	N 10 23.0	83 17.2	N 2 56.3	176 15.7	N 23 05.4	182 13.5	N 22 13.5	270 36.2	S 7 07.1	207 31.3	N 22 52.8	58.7	Arcturus	145 48.3	N 19 03.4	
20	274 34.3	119 32.2	N 10 22.1	98 16.9	N 2 55.0	191 16.5	N 23 05.5	197 15.6	N 22 13.5	285 38.8	S 7 07.2	221 57.9	N 23 03.2	58.6	Atria	107 10.4	S 69 04.5	
21	289 36.8	134 32.3	N 10 21.3	113 16.6	N 2 53.7	206 17.2	N 23 05.6	212 17.7	N 22 13.6	300 41.5	S 7 07.3	236 24.5	N 23 13.5	58.6	Avior	234 15.5	S 59 35.1	
22	304 39.2	149 32.5	N 10 20.4	128 16.3	N 2 52.5	221 18.0	N 23 05.7	227 19.8	N 22 13.6	315 44.1	S 7 07.4	250 51.0	N 23 23.7	58.6	Bellatrix	278 23.4	N 6 22.4	
23	319 41.7	164 32.7	N 10 19.5	143 15.9	N 2 51.2	236 18.7	N 23 05.9	242 22.0	N 22 13.6	330 46.7	S 7 07.4	265 17.4	N 23 33.7	58.5	Betelgeuse	270 52.6	N 7 24.8	
26 00	334 44.2	179 32.9	N 10 18.7	158 15.6	N 2 49.9	251 19.5	N 23 06.0	257 24.1	N 22 13.7	345 49.3	S 7 07.5	279 43.8	N 23 43.5	58.5	Canopus	263 52.9	S 52 42.2	
01	349 46.6	194 33.0	N 10 17.8	173 15.3	N 2 48.6	266 20.3	N 23 06.1	272 26.2	N 22 13.7	0 52.0	S 7 07.6	294 10.2	N 23 53.2	58.5	Capella	280 22.6	N 46 01.2	
02	4 49.1	209 33.2	N 10 16.9	188 15.0	N 2 47.4	281 21.0	N 23 06.2	287 28.3	N 22 13.7	15 54.6	S 7 07.7	308 36.5	N 24 02.8	58.4	Castor	245 57.8	N 31 50.1	
03	19 51.6	224 33.4	N 10 16.1	203 14.6	N 2 46.1	296 21.8	N 23 06.3	302 30.4	N 22 13.7	30 57.2	S 7 07.7	323 02.7	N 24 12.2	58.4	Deneb	49 25.6	N 45 22.2	
04	34 54.0	239 33.6	N 10 15.2	218 14.3	N 2 44.8	311 22.5	N 23 06.4	317 32.5	N 22 13.8	45 59.9	S 7 07.8	337 28.9	N 24 21.4	58.4	Denebola	182 25.5	N 44 26.2	
05	49 56.5	254 33.8	N 10 14.3	233 14.0	N 2 43.5	326 23.3	N 23 06.5	332 34.7	N 22 13.8	61 02.5	S 7 07.9	351 55.1	N 24 30.5	58.3				
06	64 59.0	269 33.9	N 10 13.4	248 13.7	N 2 42.3	341 24.1	N 23 06.6	347 36.8	N 22 13.8	76 05.1	S 7 08.0	6 21.2	N 24 39.5	58.3	Diphda	348 47.4	S 17 50.9	
07	80 01.4	284 34.1	N 10 12.6	263 13.3	N 2 41.0	356 24.8	N 23 06.8	2 38.9	N 22 13.8	91 07.8	S 7 08.0	20 47.2	N 24 48.2	58.3	Dubhe	193 42.0	N 61 37.3	
08	95 03.9	299 34.3	N 10 11.7	278 13.0	N 2 39.7	11 25.6	N 23 06.9	17 41.0	N 22 13.9	106 10.4	S 7 08.1	35 13.3	N 24 56.9	58.3	Elnath	278 02.5	N 28 37.7	
09	110 06.4	314 34.5	N 10 10.8	293 12.7	N 2 38.4	26 26.4	N 23 07.0	32 43.1	N 22 13.9	121 13.0	S 7 08.2	49 39.2	N 25 05.3	58.2	Etamin	90 42.0	N 51 29.3	
10	125 08.8	329 34.7	N 10 09.9	308 12.4	N 2 37.2	41 27.1	N 23 07.1	47 45.2	N 22 13.9	136 15.7	S 7 08.3	64 05.1	N 25 13.7	58.2	Enif	33 38.8	N 9 59.3	
11	140 11.3	344 34.8	N 10 09.1	323 12.0	N 2 35.9	56 27.9	N 23 07.2	62 47.4	N 22 14.0	151 18.3	S 7 08.3	78 31.0	N 25 21.8	58.2				
12	155 13.7	359 35.0	N 10 08.2	338 11.7	N 2 34.6	71 28.6	N 23 07.3	77 49.5	N 22 14.0	166 20.9	S 7 08.4	92 56.8	N 25 29.8	58.1	Fomalhaut	15 14.5	S 29 29.4	
13	170 16.2	14 35.2	N 10 07.3	353 11.4	N 2 33.3	86 29.4	N 23 07.4	92 51.6	N 22 14.0	181 23.6	S 7 08.5	107 22.6	N 25 37.6	58.1	Gacrux	171 52.5	S 57 15.2	
14	185 18.7	29 35.4	N 10 06.4	8 11.1	N 2 32.1	101 30.2	N 23 07.6	107 53.7	N 22 14.0	196 26.2	S 7 08.6	121 48.4	N 25 45.3	58.1	Gienah	175 44.2	S 17 40.7	
15	200 21.1	44 35.6	N 10 05.6	23 10.7	N 2 30.8	116 30.9	N 23 07.7	122 55.8	N 22 14.1	211 28.8	S 7 08.6	136 14.1	N 25 52.8	58.0	Hadar	148 36.7	S 60 29.7	
16	215 23.6	59 35.7	N 10 04.7	38 10.4	N 2 29.5	131 31.7	N 23 07.8	137 58.0	N 22 14.1	226 31.5	S 7 08.7	150 39.8	N 26 00.2	58.0	Hamal	327 51.5	N 23 34.7	
17	230 26.1	74 35.9	N 10 03.8	53 10.1	N 2 28.2	146 32.5	N 23 07.9	153 00.1	N 22 14.1	241 34.1	S 7 08.8	165 05.4	N 26 07.4	58.0				
18	245 28.5	89 36.1	N 10 02.9	68 09.8	N 2 26.9	161 33.2	N 23 08.0	168 02.2	N 22 14.1	256 36.7	S 7 08.9	179 31.0	N 26 14.4	57.9	Kaus aust.	83 32.7	S 34 22.4	
19	260 31.0	104 36.3	N 10 02.1	83 09.5	N 2 25.7	176 34.0	N 23 08.1	183 04.3	N 22 14.2	271 39.4	S 7 08.9	193 56.6	N 26 21.3	57.9	Kochab	137 19.9	N 74 03.5	
20	275 33.5	119 36.5	N 10 01.2	98 09.1	N 2 24.4	191 34.8	N 23 08.2	198 06.4	N 22 14.2	286 42.0	S 7 09.0	208 22.1	N 26 28.0	57.9	Markab	13 29.9	N 15 20.3	
21	290 35.9	134 36.6	N 10 00.3	113 08.8	N 2 23.1	206 35.5	N 23 08.3	213 08.6	N 22 14.2	301 44.6	S 7 09.1	222 47.6	N 26 34.5	57.9	Menkar	314 06.5	N 4 11.3	
22	305 38.4	149 36.8	N 9 59.4	128 08.5	N 2 21.8	221 36.3	N 23 08.4	228 10.7	N 22 14.2	316 47.3	S 7 09.2	237 13.1	N 26 40.8	57.8	Menkent	147 58.1	S 36 29.6	
23	320 40.9	164 37.0	N 9 58.6	143 08.2	N 2 20.6	236 37.1	N 23 08.5	243 12.8	N 22 14.3	331 49.9	S 7 09.2	251 38.5	N 26 47.0	57.8				
27 00	335 43.3	179 37.2	N 9 57.7	158 07.8	N 2 19.3	251 37.8	N 23 08.6	258 14.9	N 22 14.3	346 52.5	S 7 09.3	266 03.9	N 26 53.1	57.8	Miaplacidus	221 39.4	S 69 49.0	
01	350 45.8	194 37.4	N 9 56.8	173 07.5	N 2 18.0	266 38.6	N 23 08.8	273 17.0	N 22 14.3	1 55.2	S 7 09.4	280 29.3	N 26 58.9	57.7	Mirf			

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	AGOSTO	19
d h	'	'	'	'	'	'	'	'	'	'	'	'
28 00	336 42.5	179 41.6 N 9 36.5	158 00.2 N 1 48.6	251 56.3 N 23 11.1	259 05.9 N 22 14.9	347 55.7 S 7 11.2	252 09.2 N 28 26.9	57.1	NOME	360	- AR	Dec.
01	351 44.9	194 41.8 N 9 35.7	172 59.8 N 1 47.3	266 57.0 N 23 11.2	274 08.0 N 22 14.9	2 58.4 S 7 11.2	266 34.5 N 28 28.7	57.0	Acamar	315	11.9	S 40 12.0
02	6 47.4	209 42.0 N 9 34.8	187 59.5 N 1 46.0	281 57.8 N 23 11.3	289 10.2 N 22 15.0	18 01.0 S 7 11.3	280 59.7 N 28 30.3	57.0	Achernar	335	20.1	S 57 06.4
03	21 49.8	224 42.1 N 9 33.9	202 59.2 N 1 44.7	296 58.6 N 23 11.4	304 12.3 N 22 15.0	33 03.6 S 7 11.4	295 24.9 N 28 31.7	57.0	Acruz	173	01.0	S 63 14.3
04	36 52.3	239 42.3 N 9 33.0	217 58.9 N 1 43.4	311 59.4 N 23 11.5	319 14.4 N 22 15.0	48 06.3 S 7 11.5	309 50.2 N 28 33.0	56.9	Adhara	255	06.4	S 29 00.1
05	51 54.8	254 42.5 N 9 32.1	232 58.6 N 1 42.2	327 00.1 N 23 11.6	334 16.5 N 22 15.1	63 08.9 S 7 11.5	324 15.5 N 28 34.1	56.9	Aldebaran	290	40.1	N 16 33.6
06	66 57.2	269 42.7 N 9 31.2	247 58.2 N 1 40.9	342 00.9 N 23 11.7	349 18.7 N 22 15.1	78 11.5 S 7 11.6	338 40.8 N 28 35.0	56.9				
07	81 59.7	284 42.9 N 9 30.3	262 57.9 N 1 39.6	357 01.7 N 23 11.8	4 20.8 N 22 15.1	93 14.2 S 7 11.7	353 06.1 N 28 35.7	56.9	Alioth	166	13.6	N 55 49.8
08	97 02.2	299 43.1 N 9 29.5	277 57.6 N 1 38.3	12 02.4 N 23 11.9	19 22.9 N 22 15.1	108 16.8 S 7 11.8	7 31.5 N 28 36.3	56.8	Alkaid	152	52.5	N 49 11.7
09	112 04.6	314 43.3 N 9 28.6	292 57.3 N 1 37.0	27 03.2 N 23 12.0	34 25.1 N 22 15.2	123 19.4 S 7 11.8	21 56.9 N 28 36.7	56.8	Alnair	27	32.8	S 46 50.4
10	127 07.1	329 43.4 N 9 27.7	307 57.0 N 1 35.7	42 04.0 N 23 12.1	49 27.2 N 22 15.2	138 22.1 S 7 11.9	36 22.3 N 28 37.0	56.8	Alnilam	275	38.2	S 1 11.0
11	142 09.6	344 43.6 N 9 26.8	322 56.7 N 1 34.5	57 04.8 N 23 12.2	64 29.3 N 22 15.2	153 24.7 S 7 12.0	50 47.8 N 28 37.1	56.8	Alphard	217	48.4	S 8 45.8
12	157 12.0	359 43.8 N 9 25.9	337 56.3 N 1 33.2	72 05.5 N 23 12.3	79 31.5 N 22 15.2	168 27.3 S 7 12.1	65 13.2 N 28 37.0	56.7				
13	172 14.5	14 44.0 N 9 25.0	352 56.0 N 1 31.9	87 06.3 N 23 12.4	94 33.6 N 22 15.3	183 30.0 S 7 12.1	79 38.7 N 28 36.7	56.7	Alphecca	126	04.0	N 26 38.1
14	187 17.0	29 44.2 N 9 24.1	7 55.7 N 1 30.6	102 07.1 N 23 12.5	109 35.7 N 22 15.3	198 32.6 S 7 12.2	94 04.3 N 28 36.3	56.7	Alpheratz	357	34.8	N 29 13.6
15	202 19.4	44 44.4 N 9 23.2	22 55.4 N 1 29.3	117 07.9 N 23 12.6	124 37.8 N 22 15.3	213 35.2 S 7 12.3	108 29.9 N 28 35.7	56.6	Altair	62	00.0	N 8 56.1
16	217 21.9	59 44.6 N 9 22.4	37 55.1 N 1 28.0	132 08.6 N 23 12.7	139 40.0 N 22 15.3	228 37.9 S 7 12.4	122 55.5 N 28 34.9	56.6	Ankaa	353	07.1	S 42 10.1
17	232 24.3	74 44.7 N 9 21.5	52 54.7 N 1 26.8	147 09.4 N 23 12.8	154 42.1 N 22 15.4	243 40.5 S 7 12.5	137 21.2 N 28 34.0	56.6	Antares	112	16.1	S 26 29.2
18	247 26.8	89 44.9 N 9 20.6	67 54.4 N 1 25.5	162 10.2 N 23 12.9	169 44.2 N 22 15.4	258 43.1 S 7 12.5	151 46.9 N 28 32.9	56.6				
19	262 29.3	104 45.1 N 9 19.7	82 54.1 N 1 24.2	177 11.0 N 23 13.0	184 46.4 N 22 15.4	273 45.8 S 7 12.6	166 12.7 N 28 31.7	56.5	Arcturus	145	48.3	N 19 03.4
20	277 31.7	119 45.3 N 9 18.8	97 53.8 N 1 22.9	192 11.7 N 23 13.1	199 48.5 N 22 15.4	288 48.4 S 7 12.7	180 38.5 N 28 30.3	56.5	Atria	107	10.5	S 69 04.5
21	292 34.2	134 45.5 N 9 17.9	112 53.5 N 1 21.6	207 12.5 N 23 13.2	214 50.6 N 22 15.5	303 51.1 S 7 12.8	195 04.3 N 28 28.7	56.5	Avior	234	15.5	S 59 35.1
22	307 36.7	149 45.7 N 9 17.0	127 53.2 N 1 20.3	222 13.3 N 23 13.3	229 52.8 N 22 15.5	318 53.7 S 7 12.8	209 30.2 N 28 27.0	56.5	Bellatrix	278	23.4	N 6 22.4
23	322 39.1	164 45.9 N 9 16.1	142 52.8 N 1 19.1	237 14.1 N 23 13.4	244 54.9 N 22 15.5	333 56.3 S 7 12.9	223 56.2 N 28 25.1	56.4	Betelgeuse	270	52.6	N 7 24.8
29 00	337 41.6	179 46.1 N 9 15.2	157 52.5 N 1 17.8	252 14.8 N 23 13.5	259 57.0 N 22 15.5	348 59.0 S 7 13.0	238 22.2 N 28 23.0	56.4	Canopus	263	52.9	S 52 42.2
01	352 44.1	194 46.3 N 9 14.4	172 52.2 N 1 16.5	267 15.6 N 23 13.6	274 59.2 N 22 15.6	4 01.6 S 7 13.1	252 48.2 N 28 20.8	56.4	Capella	280	22.6	N 46 01.2
02	7 46.5	209 46.4 N 9 13.5	187 51.9 N 1 15.2	282 16.4 N 23 13.7	290 01.3 N 22 15.6	19 04.2 S 7 13.1	267 14.4 N 28 18.4	56.4	Castor	245	57.8	N 31 50.1
03	22 49.0	224 46.6 N 9 12.6	202 51.6 N 1 13.9	297 17.2 N 23 13.7	305 03.4 N 22 15.6	34 06.9 S 7 13.2	281 40.5 N 28 15.9	56.3	Deneb	49	25.6	N 45 22.2
04	37 51.5	239 46.8 N 9 11.7	217 51.3 N 1 12.6	312 17.9 N 23 13.8	320 05.6 N 22 15.6	49 09.5 S 7 13.3	296 06.8 N 28 13.2	56.3	Denebola	182	25.5	N 44 26.2
05	52 53.9	254 47.0 N 9 10.8	232 50.9 N 1 11.4	327 18.7 N 23 13.9	335 07.7 N 22 15.7	64 12.1 S 7 13.4	310 33.1 N 28 10.3	56.3				
06	67 56.4	269 47.2 N 9 09.9	247 50.6 N 1 10.1	342 19.5 N 23 14.0	350 09.9 N 22 15.7	79 14.8 S 7 13.4	324 59.4 N 28 07.3	56.3	Diphda	348	47.4	S 17 50.9
07	82 58.8	284 47.4 N 9 09.0	262 50.3 N 1 08.8	357 20.3 N 23 14.1	5 12.0 N 22 15.7	94 17.4 S 7 13.5	339 25.9 N 28 04.2	56.2	Dubhe	193	42.0	N 61 37.2
08	98 01.3	299 47.6 N 9 08.1	277 50.0 N 1 07.5	12 21.0 N 23 14.2	20 14.1 N 22 15.7	109 20.0 S 7 13.6	353 52.3 N 28 00.8	56.2	Elnath	278	02.4	N 28 37.7
09	113 03.8	314 47.8 N 9 07.2	292 49.7 N 1 06.2	27 21.8 N 23 14.3	35 16.3 N 22 15.8	124 22.7 S 7 13.7	8 18.9 N 27 57.4	56.2	Etamin	90	42.0	N 51 29.3
10	128 06.2	329 48.0 N 9 06.3	307 49.4 N 1 04.9	42 22.6 N 23 14.4	50 18.4 N 22 15.8	139 25.3 S 7 13.8	22 45.5 N 27 53.8	56.2	Enif	33	38.8	N 9 59.4
11	143 08.7	344 48.1 N 9 05.4	322 49.0 N 1 03.7	57 23.4 N 23 14.5	65 20.5 N 22 15.8	154 27.9 S 7 13.8	37 12.2 N 27 50.0	56.1				
12	158 11.2	359 48.3 N 9 04.5	337 48.7 N 1 02.4	72 24.2 N 23 14.6	80 22.7 N 22 15.8	169 30.6 S 7 13.9	51 39.0 N 27 46.1	56.1	Fomalhaut	15	14.5	S 29 29.4
13	173 13.6	14 48.5 N 9 03.6	352 48.4 N 1 01.1	87 24.9 N 23 14.7	95 24.8 N 22 15.9	184 33.2 S 7 14.0	66 05.8 N 27 42.0	56.1	Gacrux	171	52.5	S 57 15.2
14	188 16.1	29 48.7 N 9 02.7	7 48.1 N 0 59.8	102 25.7 N 23 14.7	110 27.0 N 22 15.9	199 35.9 S 7 14.1	80 32.7 N 27 37.8	56.1	Gienah	175	44.2	S 17 40.7
15	203 18.6	44 48.9 N 9 01.9	22 47.8 N 0 58.5	117 26.5 N 23 14.8	125 29.1 N 22 15.9	214 38.5 S 7 14.1	94 59.7 N 27 33.4	56.1	Hadar	148	36.7	S 60 29.7
16	218 21.0	59 49.1 N 9 01.0	37 47.5 N 0 57.2	132 27.3 N 23 14.9	140 31.2 N 22 15.9	229 41.1 S 7 14.2	109 26.7 N 27 28.9	56.0	Hamal	327	51.4	N 23 34.7
17	233 23.5	74 49.3 N 9 00.1	52 47.1 N 0 55.9	147 28.1 N 23 15.0	155 33.4 N 22 15.9	244 43.8 S 7 14.3	123 53.8 N 27 24.2	56.0				
18	248 26.0	89 49.5 N 8 59.2	67 46.8 N 0 54.7	162 28.8 N 23 15.1	170 35.0 N 22 16.0	259 46.4 S 7 14.4	138 21.0 N 27 19.4	56.0	Kaus aust.	83	32.7	S 34 22.4
19	263 28.4	104 49.7 N 8 58.3	82 46.5 N 0 53.4	177 29.6 N 23 15.2	185 37.6 N 22 16.0	274 49.0 S 7 14.4	152 48.3 N 27 14.5	56.0	Kochab	137	19.9	N 74 03.5
20	278 30.9	119 49.9 N 8 57.4	97 46.2 N 0 52.1	192 30.4 N 23 15.3	200 39.8 N 22 16.0	289 51.7 S 7 14.5	167 15.7 N 27 09.4	55.9	Markab	13	29.9	N 15 20.3
21	293 33.3	134 50.1 N 8 56.5	112 45.9 N 0 50.8	207 31.2 N 23 15.4	215 41.9 N 22 16.0	304 54.3 S 7 14.6	181 43.1 N 27 04.1	55.9	Menkar	314	06.4	N 4 11.3
22	308 35.8	149 50.2 N 8 55.6	127 45.6 N 0 49.5	222 32.0 N 23 15.4	230 44.1 N 22 16.1	319 56.9 S 7 14.7	196 10.6 N 26 58.8	55.9	Menkent	147	58.2	S 36 29.6
23	323 38.3	164 50.4 N 8 54.7	142 45.3 N 0 48.2	237 32.7 N 23 15.5	245 46.2 N 22 16.1	334 59.6 S 7 14.7	210 38.2 N 26 53.3	55.9				
30 00	338 40.7	179 50.6 N 8 53.8	157 44.9 N 0 46.9	252 33.5 N 23 15.6	260 48.3 N 22 16.1	350 02.2 S 7 14.8	225 05.9 N 26 47.6	55.8	Miaplacidus	221	39.4	S 69 49.0
01	353 43.2	194 50.8 N 8 52.9	172 44.6 N 0 45.7	267 34.3 N 23 15.7	275 50.5 N 22 16.1	5 04.9 S 7 14.9	239 33.7 N 26 41.8	55.8	Mirfak	308	28.7	N 49 56.7
02	8 45.7	209 51.0 N 8 52.0	187 44.3 N 0 44.4	282 35.1 N 23 15.8	290 52.6 N 22 16.2	20 07.5 S 7 15.0	254 01.5 N 26 35.9	55.8	Mizar	158	46.4	N 54 48.1
03	23 48.1	224 51.2 N 8 51.1	202 44.0 N 0 43.1	297 35.9 N 23 15.9	305 54.8 N 22 16.2	35 10.1 S 7 15.1	268 29.5 N 26 29.8	55.8	Nunki	75	47.9	S 26 16.0
04	38 50.6	239 51.4 N 8 50.2	217 43.7 N 0 41.8	312 36.7 N 23 16.0	320 56.9 N 22 16.2	50 12.8 S 7 15.1	282 57.5 N 26 23.6	55.8	Peacock	53	05.6	S 56 39.4
05	53 53.1	254 51.6 N 8 49.3	232 43.4 N 0 40.5	327 37.4 N 23 16.0	335 59.0 N 22 16.2	65 15.4 S 7 15.2	297 25.6 N 26 17.3	55.7	Polaris	314	08.0	N 89 21.8
06	68 55.5	269 51.8 N 8 48.4	247 43.0 N 0 39.2	342 38.2 N 23 16.1	351 01.2 N 22 16.3	80 18.0 S 7 15.3	311 53.8 N 26 10.8	55.7	Pollux	243	18.0	N 27 58.1
07	83 58.0	284 52.0 N 8 47.5	262 42.7 N 0 37.9	357 39.0 N 23 16.2	6 03.3 N 22 16.3	95 20.7 S 7 15.4	326 22.1 N 26 04.3	55.7	Procyon	244	51.4	N 5 09.8
08	99 00.5	299 52.2 N 8 46.6	277 42.4 N 0 36.7	12 39.8 N 23 16.3	21 05.5 N 22 16.3	110 23.3 S 7 15.4	340 50.4 N 25 57.5	55.7	Rasalhague	95	58.7	N 12 32.6
09	114 02.9	314 52.4 N 8 45.7	292 42.1 N 0 35.4	27 40.6 N 23 16.4	36 0							

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	AGOSTO	22
d h	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	'	NOME	360	- AR	Dec.
31 00	339 39.9	179 55.3	N 8 32.2	157 37.4	N 0 16.1	252 52.3	N 23 17.6	261 39.8	N 22 16.7	351 05.5	S 7 16.7	212 36.6	N 23 53.4	55.4				
01	354 42.3	194 55.5	N 8 31.3	172 37.1	N 0 14.8	267 53.1	N 23 17.7	276 41.9	N 22 16.7	6 08.1	S 7 16.7	227 06.5	N 23 44.6	55.3	Acamar	315 11.9	S 40 12.0	
02	9 44.8	209 55.7	N 8 30.4	187 36.8	N 0 13.5	282 53.9	N 23 17.8	291 44.1	N 22 16.7	21 10.8	S 7 16.8	241 36.6	N 23 35.8	55.3	Achernar	335 20.0	S 57 06.4	
03	24 47.3	224 55.9	N 8 29.5	202 36.4	N 0 12.2	297 54.7	N 23 17.8	306 46.2	N 22 16.8	36 13.4	S 7 16.9	256 06.7	N 23 26.8	55.3	AcruX	173 01.1	S 63 14.3	
04	39 49.7	239 56.1	N 8 28.6	217 36.1	N 0 10.9	312 55.5	N 23 17.9	321 48.4	N 22 16.8	51 16.0	S 7 17.0	270 36.9	N 23 17.8	55.3	Adhara	255 06.4	S 29 00.1	
05	54 52.2	254 56.3	N 8 27.7	232 35.8	N 0 09.6	327 56.3	N 23 18.0	336 50.5	N 22 16.8	66 18.7	S 7 17.1	285 07.2	N 23 08.6	55.3	Aldebaran	290 40.0	N 16 33.6	
06	69 54.7	269 56.5	N 8 26.8	247 35.5	N 0 08.3	342 57.1	N 23 18.1	351 52.7	N 22 16.8	81 21.3	S 7 17.1	299 37.5	N 22 59.3	55.2				
07	84 57.1	284 56.6	N 8 25.9	262 35.2	N 0 07.1	357 57.9	N 23 18.2	6 54.8	N 22 16.8	96 24.0	S 7 17.2	314 08.0	N 22 50.0	55.2	Alioth	166 13.6	N 55 49.8	
08	99 59.6	299 56.8	N 8 25.0	277 34.9	N 0 05.8	12 58.7	N 23 18.2	21 57.0	N 22 16.9	111 26.6	S 7 17.3	328 38.6	N 22 40.5	55.2	Alkaid	152 52.5	N 49 11.7	
09	115 02.1	314 57.0	N 8 24.1	292 34.6	N 0 04.5	27 59.4	N 23 18.3	36 59.1	N 22 16.9	126 29.2	S 7 17.4	343 09.3	N 22 30.9	55.2	Alnair	27 32.8	S 46 50.4	
10	130 04.5	329 57.2	N 8 23.2	307 34.2	N 0 03.2	43 00.2	N 23 18.4	52 01.3	N 22 16.9	141 31.9	S 7 17.4	357 40.0	N 22 21.2	55.2	Alnilam	275 38.2	S 1 11.0	
11	145 07.0	344 57.4	N 8 22.3	322 33.9	N 0 01.9	58 01.0	N 23 18.5	67 03.4	N 22 16.9	156 34.5	S 7 17.5	12 10.9	N 22 11.5	55.1	Alphard	217 48.4	S 8 45.8	
12	160 09.4	359 57.6	N 8 21.4	337 33.6	N 0 00.6	73 01.8	N 23 18.5	82 05.6	N 22 17.0	171 37.1	S 7 17.6	26 41.8	N 22 01.6	55.1				
13	175 11.9	14 57.8	N 8 20.5	352 33.3	S 0 00.7	88 02.6	N 23 18.6	97 07.7	N 22 17.0	186 39.8	S 7 17.7	41 12.8	N 21 51.7	55.1	Alphecca	126 04.0	N 26 38.1	
14	190 14.4	29 58.0	N 8 19.5	7 33.0	S 0 02.0	103 03.4	N 23 18.7	112 09.9	N 22 17.0	201 42.4	S 7 17.7	55 43.9	N 21 41.6	55.1	Alpheratz	357 34.8	N 29 13.6	
15	205 16.8	44 58.2	N 8 18.6	22 32.7	S 0 03.2	118 04.2	N 23 18.8	127 12.0	N 22 17.0	216 45.1	S 7 17.8	70 15.1	N 21 31.5	55.1	Altair	62 00.0	N 8 56.1	
16	220 19.3	59 58.4	N 8 17.7	37 32.4	S 0 04.5	133 05.0	N 23 18.8	142 14.2	N 22 17.1	231 47.7	S 7 17.9	84 46.4	N 21 21.2	55.1	Ankaa	353 07.1	S 42 10.1	
17	235 21.8	74 58.6	N 8 16.8	52 32.1	S 0 05.8	148 05.8	N 23 18.9	157 16.3	N 22 17.1	246 50.3	S 7 18.0	99 17.8	N 21 10.9	55.0	Antares	112 16.2	S 26 29.2	
18	250 24.2	89 58.8	N 8 15.9	67 31.7	S 0 07.1	163 06.6	N 23 19.0	172 18.5	N 22 17.1	261 53.0	S 7 18.1	113 49.3	N 21 00.5	55.0				
19	265 26.7	104 59.0	N 8 15.0	82 31.4	S 0 08.4	178 07.3	N 23 19.1	187 20.6	N 22 17.1	276 55.6	S 7 18.1	128 20.9	N 20 50.0	55.0	Arcturus	145 48.3	N 19 03.4	
20	280 29.2	119 59.2	N 8 14.1	97 31.1	S 0 09.7	193 08.1	N 23 19.1	202 22.8	N 22 17.1	291 58.3	S 7 18.2	142 52.5	N 20 39.4	55.0	Atria	107 10.5	S 69 04.5	
21	295 31.6	134 59.4	N 8 13.2	112 30.8	S 0 11.0	208 08.9	N 23 19.2	217 25.0	N 22 17.2	307 00.9	S 7 18.3	157 24.3	N 20 28.7	55.0	Avior	234 15.5	S 59 35.1	
22	310 34.1	149 59.6	N 8 12.3	127 30.5	S 0 12.3	223 09.7	N 23 19.3	232 27.1	N 22 17.2	322 03.5	S 7 18.4	171 56.1	N 20 18.0	55.0	Bellatrix	278 23.4	N 6 22.4	
23	325 36.6	164 59.8	N 8 11.4	142 30.2	S 0 13.6	238 10.5	N 23 19.4	247 29.3	N 22 17.2	337 06.2	S 7 18.4	186 28.0	N 20 07.1	54.9	Betelgeuse	270 52.6	N 7 24.8	
Set																		
01 00	340 39.0	180 00.0	N 8 10.5	157 29.9	S 0 14.8	253 11.3	N 23 19.4	262 31.4	N 22 17.2	352 08.8	S 7 18.5	201 00.1	N 19 56.2	54.9	Canopus	263 52.9	S 52 42.2	
01 01	355 41.5	195 00.2	N 8 09.6	172 29.5	S 0 16.1	268 12.1	N 23 19.5	277 33.6	N 22 17.3	7 11.4	S 7 18.6	215 32.1	N 19 45.2	54.9	Capella	280 22.5	N 46 01.2	
02	10 43.9	210 00.4	N 8 08.7	187 29.2	S 0 17.4	283 12.9	N 23 19.6	292 35.7	N 22 17.3	22 14.1	S 7 18.7	230 04.3	N 19 34.1	54.9	Castor	245 57.8	N 31 50.1	
03	25 46.4	225 00.6	N 8 07.8	202 28.9	S 0 18.7	298 13.7	N 23 19.6	307 37.9	N 22 17.3	37 16.7	S 7 18.8	244 36.6	N 19 22.9	54.9	Deneb	49 25.6	N 45 22.2	
04	40 48.9	240 00.8	N 8 06.8	217 28.6	S 0 20.0	313 14.5	N 23 19.7	320 40.0	N 22 17.3	52 19.4	S 7 18.8	259 08.9	N 19 11.7	54.9	Denebola	182 25.5	N 44 26.2	
05	55 51.3	255 01.0	N 8 05.9	232 28.3	S 0 21.3	328 15.3	N 23 19.8	337 42.2	N 22 17.3	67 22.0	S 7 18.9	273 41.4	N 19 00.4	54.9				
06	70 53.8	270 01.2	N 8 05.0	247 28.0	S 0 22.6	343 16.1	N 23 19.9	352 44.3	N 22 17.4	82 24.6	S 7 19.0	288 13.9	N 18 49.0	54.8	Diphda	348 47.4	S 17 50.9	
07	85 56.3	285 01.4	N 8 04.1	262 27.7	S 0 23.9	358 16.9	N 23 19.9	7 46.5	N 22 17.4	97 27.3	S 7 19.1	302 46.5	N 18 37.5	54.8	Dubhe	193 42.0	N 61 37.2	
08	100 58.7	300 01.6	N 8 03.2	277 27.4	S 0 25.2	13 17.7	N 23 20.0	22 48.7	N 22 17.4	112 29.9	S 7 19.1	317 19.2	N 18 26.0	54.8	Elnath	278 02.4	N 28 37.7	
09	116 01.2	315 01.8	N 8 02.3	292 27.0	S 0 26.4	28 18.5	N 23 20.1	37 50.8	N 22 17.4	127 32.5	S 7 19.2	331 51.9	N 18 14.4	54.8	Etamin	90 42.0	N 51 29.3	
10	131 03.7	330 02.0	N 8 01.4	307 26.7	S 0 27.7	43 19.3	N 23 20.1	52 53.0	N 22 17.5	142 35.2	S 7 19.3	346 24.8	N 18 02.7	54.8	Enif	33 38.8	N 9 59.4	
11	146 06.1	345 02.2	N 8 00.5	322 26.4	S 0 29.0	58 20.0	N 23 20.2	67 55.1	N 22 17.5	157 37.8	S 7 19.4	0 57.7	N 17 51.0	54.8				
12	161 08.6	0 02.4	N 7 59.6	337 26.1	S 0 30.3	73 20.8	N 23 20.3	82 57.3	N 22 17.5	172 40.5	S 7 19.4	15 30.7	N 17 39.2	54.7	Fomalhaut	15 14.5	S 29 29.4	
13	176 11.0	15 02.6	N 7 58.7	352 25.8	S 0 31.6	88 21.6	N 23 20.3	97 59.4	N 22 17.5	187 43.1	S 7 19.5	30 03.8	N 17 27.3	54.7	Gacrux	171 52.5	S 57 15.2	
14	191 13.5	30 02.8	N 7 57.7	7 25.5	S 0 32.9	103 22.4	N 23 20.4	113 01.6	N 22 17.5	202 45.7	S 7 19.6	44 37.0	N 17 15.3	54.7	Gienah	175 44.2	S 17 40.7	
15	206 16.0	45 03.0	N 7 56.8	22 25.2	S 0 34.2	118 23.2	N 23 20.5	128 03.8	N 22 17.6	217 48.4	S 7 19.7	59 10.2	N 17 03.3	54.7	Hadar	148 36.8	S 60 29.7	
16	221 18.4	60 03.2	N 7 55.9	37 24.9	S 0 35.5	133 24.0	N 23 20.6	143 05.9	N 22 17.6	232 51.0	S 7 19.8	73 43.5	N 16 51.2	54.7	Hamal	327 51.4	N 23 34.7	
17	236 20.9	75 03.4	N 7 55.0	52 24.5	S 0 36.7	148 24.8	N 23 20.6	158 08.1	N 22 17.6	247 53.7	S 7 19.8	88 16.9	N 16 39.1	54.7				
18	251 23.4	90 03.6	N 7 54.1	67 24.2	S 0 38.0	163 25.6	N 23 20.7	173 10.2	N 22 17.6	262 56.3	S 7 19.9	102 50.4	N 16 26.9	54.7	Kaus aust.	83 32.7	S 34 22.4	
19	266 25.8	105 03.8	N 7 53.2	82 23.9	S 0 39.3	178 26.4	N 23 20.8	188 12.4	N 22 17.7	277 58.9	S 7 20.0	117 23.9	N 16 14.6	54.6	Kochab	137 20.0	N 74 03.5	
20	281 28.3	120 04.0	N 7 52.3	97 23.6	S 0 40.6	193 27.2	N 23 20.8	203 14.5	N 22 17.7	293 01.6	S 7 20.1	131 57.5	N 16 02.3	54.6	Markab	13 29.9	N 15 20.3	
21	296 30.8	135 04.2	N 7 51.4	112 23.3	S 0 41.9	208 28.0	N 23 20.9	218 16.7	N 22 17.7	308 04.2	S 7 20.1	146 31.2	N 15 49.9	54.6	Menkar	314 06.4	N 4 11.3	
22	311 33.2	150 04.4	N 7 50.4	127 23.0	S 0 43.2	223 28.8	N 23 21.0	233 18.9	N 22 17.7	323 06.8	S 7 20.2	161 05.0	N 15 37.5	54.6	Menkent	147 58.2	S 36 29.6	
23	326 35.7	165 04.6	N 7 49.5	142 22.7	S 0 44.5	238 29.6	N 23 21.0	248 21.0	N 22 17.7	338 09.5	S 7 20.3	175 38.8	N 15 25.0	54.6				
02 00	341 38.2	180 04.8	N 7 48.6	157 22.3	S 0 45.8	253 30.4	N 23 21.1	263 23.2	N 22 17.8	353 12.1	S 7 20.4	190 12.7	N 15 12.4	54.6	Miaplacidus	221 39.3	S 69 48.9	
01	356 40.6	195 05.0	N 7 47.7	172 22.0	S 0 47.1	268 31.2	N 23 21.2	278 25.3										

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	AGOSTO	25
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
03 00	342 37.3	180 09.7	N 7 26.6	157 14.8	S 1 16.7	253 49.7	N 23 22.6	264 15.1	N 22 18.3	354 15.5	S 7 22.2	180 05.1	N 9 57.0	54.3	NOME	360 - AR	Dec.	
01	357 39.8	195 09.9	N 7 25.7	172 14.5	S 1 18.0	268 50.5	N 23 22.6	279 17.3	N 22 18.3	9 18.1	S 7 22.3	194 40.5	N 9 43.4	54.3	Acamar	315 11.9	S 40 12.0	
02	12 42.2	210 10.1	N 7 24.8	187 14.2	S 1 19.3	283 51.3	N 23 22.7	294 19.5	N 22 18.3	24 20.7	S 7 22.4	209 15.9	N 9 29.8	54.3	Achernar	335 20.0	S 57 06.4	
03	27 44.7	225 10.3	N 7 23.9	202 13.9	S 1 20.6	298 52.1	N 23 22.8	309 21.6	N 22 18.3	39 23.4	S 7 22.5	223 51.3	N 9 16.1	54.3	Acruz	173 01.1	S 63 14.3	
04	42 47.1	240 10.5	N 7 23.0	217 13.6	S 1 21.9	313 52.9	N 23 22.8	324 23.8	N 22 18.4	54 26.0	S 7 22.5	238 26.8	N 9 02.4	54.3	Adhara	255 06.4	S 29 00.1	
05	57 49.6	255 10.7	N 7 22.0	232 13.3	S 1 23.1	328 53.7	N 23 22.9	339 26.0	N 22 18.4	69 28.7	S 7 22.6	253 02.4	N 8 48.6	54.3	Aldebaran	290 40.0	N 16 33.6	
06	72 52.1	270 10.9	N 7 21.1	247 13.0	S 1 24.4	343 54.5	N 23 22.9	354 28.1	N 22 18.4	84 31.3	S 7 22.7	267 38.0	N 8 34.8	54.3				
07	87 54.5	285 11.1	N 7 20.2	262 12.7	S 1 25.7	358 55.3	N 23 23.0	9 30.3	N 22 18.4	99 33.9	S 7 22.8	282 13.6	N 8 21.1	54.2	Alioth	166 13.6	N 55 49.8	
08	102 57.0	300 11.3	N 7 19.3	277 12.3	S 1 27.0	13 56.1	N 23 23.0	24 32.5	N 22 18.4	114 36.6	S 7 22.8	296 49.3	N 8 07.2	54.2	Alkaid	152 52.5	N 49 11.7	
09	117 59.5	315 11.5	N 7 18.4	292 12.0	S 1 28.3	28 56.9	N 23 23.1	39 34.6	N 22 18.5	129 39.2	S 7 22.9	311 25.0	N 7 53.4	54.2	Alnair	27 32.8	S 46 50.4	
10	133 01.9	330 11.7	N 7 17.4	307 11.7	S 1 29.6	43 57.7	N 23 23.2	54 36.8	N 22 18.5	144 41.9	S 7 23.0	326 00.7	N 7 39.5	54.2	Alnilam	275 38.2	S 1 11.0	
11	148 04.4	345 11.9	N 7 16.5	322 11.4	S 1 30.9	58 58.5	N 23 23.2	69 39.0	N 22 18.5	159 44.5	S 7 23.1	340 36.5	N 7 25.6	54.2	Alphard	217 48.4	S 8 45.8	
12	163 06.9	0 12.1	N 7 15.6	337 11.1	S 1 32.2	73 59.3	N 23 23.3	84 41.2	N 22 18.5	174 47.1	S 7 23.2	355 12.4	N 7 11.7	54.2				
13	178 09.3	15 12.3	N 7 14.7	352 10.8	S 1 33.5	89 00.1	N 23 23.3	99 43.3	N 22 18.5	189 49.8	S 7 23.2	9 48.2	N 6 57.8	54.2	Alphecca	126 04.0	N 26 38.1	
14	193 11.8	30 12.5	N 7 13.7	7 10.5	S 1 34.7	104 01.0	N 23 23.4	114 45.5	N 22 18.6	204 52.4	S 7 23.3	24 24.1	N 6 43.8	54.2	Alpheratz	357 34.8	N 29 13.6	
15	208 14.3	45 12.7	N 7 12.8	22 10.1	S 1 36.0	119 01.8	N 23 23.4	129 47.7	N 22 18.6	219 55.1	S 7 23.4	39 00.1	N 6 29.8	54.2	Altair	62 00.0	N 8 56.1	
16	223 16.7	60 12.9	N 7 11.9	37 09.8	S 1 37.3	134 02.6	N 23 23.5	144 49.8	N 22 18.6	234 57.7	S 7 23.5	53 36.0	N 6 15.8	54.2	Ankaa	353 07.1	S 42 10.1	
17	238 19.2	75 13.1	N 7 11.0	52 09.5	S 1 38.3	149 03.4	N 23 23.5	159 52.0	N 22 18.6	250 00.3	S 7 23.5	68 12.0	N 6 01.8	54.2	Antares	112 16.2	S 26 29.2	
18	253 21.6	90 13.3	N 7 10.1	67 09.2	S 1 39.9	164 04.2	N 23 23.6	174 54.2	N 22 18.6	265 03.0	S 7 23.6	82 48.0	N 5 47.8	54.2				
19	268 24.1	105 13.6	N 7 09.1	82 08.9	S 1 41.2	179 05.0	N 23 23.7	189 56.4	N 22 18.7	280 05.6	S 7 23.7	97 24.1	N 5 33.7	54.1	Arcturus	145 48.3	N 19 03.4	
20	283 26.6	120 13.8	N 7 08.2	97 08.6	S 1 42.5	194 05.8	N 23 23.7	204 58.5	N 22 18.7	295 08.3	S 7 23.8	112 00.2	N 5 19.7	54.1	Atria	107 10.5	S 69 04.5	
21	298 29.0	135 14.0	N 7 07.3	112 08.3	S 1 43.8	209 06.6	N 23 23.8	220 00.7	N 22 18.7	310 10.9	S 7 23.8	126 36.3	N 5 05.6	54.1	Avior	234 15.5	S 59 35.1	
22	313 31.5	150 14.2	N 7 06.4	127 08.0	S 1 45.1	224 07.4	N 23 23.8	235 02.9	N 22 18.7	325 13.5	S 7 23.9	141 12.4	N 4 51.5	54.1	Bellatrix	278 23.3	N 6 22.4	
23	328 34.0	165 14.4	N 7 05.4	142 07.6	S 1 46.3	239 08.2	N 23 23.9	250 05.1	N 22 18.8	340 16.2	S 7 24.0	155 48.6	N 4 37.4	54.1	Betelgeuse	270 52.6	N 7 24.8	
04 00	343 36.4	180 14.6	N 7 04.5	157 07.3	S 1 47.6	254 09.1	N 23 23.9	265 07.2	N 22 18.8	355 18.8	S 7 24.1	170 24.8	N 4 23.3	54.1	Canopus	263 52.8	S 52 42.2	
01	358 38.9	195 14.8	N 7 03.6	172 07.0	S 1 48.9	269 09.9	N 23 24.0	280 09.4	N 22 18.8	10 21.5	S 7 24.2	185 01.0	N 4 09.1	54.1	Capella	280 22.5	N 46 01.2	
02	13 41.4	210 15.0	N 7 02.7	187 06.7	S 1 50.2	284 10.7	N 23 24.0	295 11.6	N 22 18.8	25 24.1	S 7 24.2	199 37.2	N 3 55.0	54.1	Castor	245 57.8	N 31 50.1	
03	28 43.8	225 15.2	N 7 01.7	202 06.4	S 1 51.5	299 11.5	N 23 24.1	310 13.8	N 22 18.8	40 26.7	S 7 24.3	214 13.5	N 3 40.9	54.1	Deneb	49 25.6	N 45 22.2	
04	43 46.3	240 15.4	N 7 00.8	217 06.1	S 1 52.8	314 12.3	N 23 24.1	325 15.9	N 22 18.9	55 29.4	S 7 24.4	228 49.8	N 3 26.7	54.1	Denebola	182 25.6	N 14 26.2	
05	58 48.7	255 15.6	N 6 59.9	232 05.8	S 1 54.1	329 13.1	N 23 24.2	340 18.1	N 22 18.9	70 32.0	S 7 24.5	243 26.1	N 3 12.5	54.1				
06	73 51.2	270 15.8	N 6 59.0	247 05.4	S 1 55.4	344 13.9	N 23 24.2	355 20.3	N 22 18.9	85 34.7	S 7 24.5	258 02.4	N 2 58.3	54.1	Diphda	348 47.3	S 17 50.9	
07	88 53.7	285 16.0	N 6 58.1	262 05.1	S 1 56.6	359 14.7	N 23 24.3	10 22.5	N 22 18.9	100 37.3	S 7 24.6	272 38.7	N 2 44.2	54.1	Dubhe	193 42.0	N 61 37.2	
08	103 56.1	300 16.2	N 6 57.1	277 04.8	S 1 57.9	14 15.5	N 23 24.3	25 24.6	N 22 18.9	115 39.9	S 7 24.7	287 15.1	N 2 30.0	54.1	Elnath	278 02.4	N 28 37.7	
09	118 58.6	315 16.4	N 6 56.2	292 04.5	S 1 59.2	29 16.4	N 23 24.4	40 26.8	N 22 19.0	130 42.6	S 7 24.8	301 51.4	N 2 15.8	54.1	Etamin	90 42.1	N 51 29.4	
10	134 01.1	330 16.7	N 6 55.3	307 04.2	S 2 00.5	44 17.2	N 23 24.4	55 29.0	N 22 19.0	145 45.2	S 7 24.8	316 27.8	N 2 01.6	54.1	Enif	33 38.8	N 9 59.4	
11	149 03.5	345 16.9	N 6 54.3	322 03.9	S 2 01.8	59 18.0	N 23 24.5	70 31.2	N 22 19.0	160 47.9	S 7 24.9	331 04.2	N 1 47.4	54.0				
12	164 06.0	0 17.1	N 6 53.4	337 03.6	S 2 03.1	74 18.8	N 23 24.5	85 33.3	N 22 19.0	175 50.5	S 7 25.0	345 40.6	N 1 33.2	54.0	Fomalhaut	15 14.5	S 29 29.4	
13	179 08.5	15 17.3	N 6 52.5	352 03.3	S 2 04.4	89 19.6	N 23 24.6	100 35.5	N 22 19.0	190 53.1	S 7 25.1	0 17.0	N 1 19.0	54.0	Gacrux	171 52.5	S 57 15.2	
14	194 10.9	30 17.5	N 6 51.6	7 02.9	S 2 05.7	104 20.4	N 23 24.6	115 37.7	N 22 19.1	205 55.8	S 7 25.2	14 53.5	N 1 04.7	54.0	Gienah	175 44.2	S 17 40.7	
15	209 13.4	45 17.7	N 6 50.6	22 02.6	S 2 07.0	119 21.2	N 23 24.7	130 39.9	N 22 19.1	220 58.4	S 7 25.2	29 29.9	N 0 50.5	54.0	Hadar	148 36.8	S 60 29.7	
16	224 15.9	60 17.9	N 6 49.7	37 02.3	S 2 08.2	134 22.1	N 23 24.7	145 42.1	N 22 19.1	236 01.1	S 7 25.3	44 06.4	N 0 36.3	54.0	Hamal	327 51.4	N 23 34.7	
17	239 18.3	75 18.1	N 6 48.8	52 02.0	S 2 09.5	149 22.9	N 23 24.8	160 44.2	N 22 19.1	251 03.7	S 7 25.4	58 42.8	N 0 22.1	54.0				
18	254 20.8	90 18.3	N 6 47.9	67 01.7	S 2 10.8	164 23.7	N 23 24.8	175 46.4	N 22 19.1	266 06.3	S 7 25.5	73 19.3	N 0 07.9	54.0	Kaus aust.	83 32.7	S 34 22.4	
19	269 23.2	105 18.5	N 6 46.9	82 01.4	S 2 12.1	179 24.5	N 23 24.9	190 48.6	N 22 19.1	281 09.0	S 7 25.5	87 55.7	S 0 06.3	54.0	Kochab	137 20.1	N 74 03.5	
20	284 25.7	120 18.7	N 6 46.0	97 01.1	S 2 13.4	194 25.3	N 23 24.9	205 50.8	N 22 19.2	296 11.6	S 7 25.6	102 32.2	S 0 20.5	54.0	Markab	13 29.9	N 15 20.3	
21	299 28.2	135 18.9	N 6 45.1	112 00.7	S 2 14.7	209 26.1	N 23 25.0	220 53.0	N 22 19.2	311 14.3	S 7 25.7	117 08.7	S 0 34.7	54.0	Menkar	314 06.4	N 4 11.3	
22	314 30.6	150 19.2	N 6 44.2	127 00.4	S 2 16.0	224 27.0	N 23 25.0	235 55.1	N 22 19.2	326 16.9	S 7 25.8	131 45.2	S 0 48.9	54.0	Menkent	147 58.2	S 36 29.6	
23	329 33.1	165 19.4	N 6 43.2	142 00.1	S 2 17.3	239 27.8	N 23 25.0	250 57.3	N 22 19.2	341 19.5	S 7 25.9	146 21.6	S 1 03.1	54.0				
05 00	344 35.6	180 19.6	N 6 42.3	156 59.8	S 2 18.5	254 28.6	N 23 25.1	265 59.5	N 22 19.2	356 22.2	S 7 25.9	160 58.1	S 1 17.3	54.0	Miaplacidus	221 39.3	S 69 48.9	
01	359 38.0	195 19.8	N 6 41.4	171 59.5	S 2 19.8	269 29.4	N 23 25.1	281 01.7	N 22 19.3	11 24.8	S 7 26.0	175 34.6	S 1 31.5	54.0	Mirfak	308 28.6	N 49 56.8	
02	14 40.5	210 20.0	N 6 40.4															

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	AGOSTO	28
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
06 00	345 34.7	180 24.6	N 6 20.0	156 52.2	S 2 49.4	254 48.3	N 23 26.1	266 51.9	N 22 19.7	357 25.6	S 7 27.8	151 31.1	S 6 54.2	54.0	NOME	360	- AR	Dec.
01	0 37.2	195 24.8	N 6 19.0	171 51.9	S 2 50.7	269 49.1	N 23 26.2	281 54.1	N 22 19.7	12 28.2	S 7 27.9	166 07.2	S 7 08.0	54.0	Acamar	315 11.8	S 40 12.0	
02	15 39.6	210 25.0	N 6 18.1	186 51.6	S 2 52.0	284 50.0	N 23 26.2	296 56.3	N 22 19.7	27 30.8	S 7 27.9	180 43.4	S 7 21.8	54.0	Achernar	335 20.0	S 57 06.4	
03	30 42.1	225 25.3	N 6 17.2	201 51.3	S 2 53.3	299 50.8	N 23 26.2	311 58.5	N 22 19.8	42 33.5	S 7 28.0	195 19.5	S 7 35.5	54.0	AcruX	173 01.1	S 63 14.2	
04	45 44.6	240 25.5	N 6 16.2	216 51.0	S 2 54.6	314 51.6	N 23 26.3	327 00.7	N 22 19.8	57 36.1	S 7 28.1	209 55.5	S 7 49.2	54.0	Adhara	255 06.3	S 29 00.1	
05	60 47.0	255 25.7	N 6 15.3	231 50.7	S 2 55.9	329 52.4	N 23 26.3	342 02.9	N 22 19.8	72 38.8	S 7 28.2	224 31.6	S 8 02.9	54.0	Aldebaran	290 40.0	N 16 33.6	
06	75 49.5	270 25.9	N 6 14.4	246 50.4	S 2 57.1	344 53.3	N 23 26.3	357 05.1	N 22 19.8	87 41.4	S 7 28.2	239 07.6	S 8 16.6	54.0				
07	90 51.9	285 26.1	N 6 13.4	261 50.0	S 2 58.4	359 54.1	N 23 26.4	12 07.3	N 22 19.8	102 44.0	S 7 28.3	253 43.6	S 8 30.3	54.0	Alioth	166 13.6	N 55 49.8	
08	105 54.4	300 26.3	N 6 12.5	276 49.7	S 2 59.7	14 54.9	N 23 26.4	27 09.5	N 22 19.9	117 46.7	S 7 28.4	268 19.5	S 8 43.9	54.0	Alkaid	152 52.5	N 49 11.7	
09	120 56.9	315 26.5	N 6 11.6	291 49.4	S 3 01.0	29 55.7	N 23 26.5	42 11.7	N 22 19.9	132 49.3	S 7 28.5	282 55.5	S 8 57.5	54.0	Alnair	27 32.8	S 46 50.4	
10	135 59.3	330 26.7	N 6 10.6	306 49.1	S 3 02.3	44 56.6	N 23 26.5	57 13.8	N 22 19.9	147 52.0	S 7 28.6	297 31.3	S 9 11.0	54.0	Alnilam	275 38.1	S 1 11.0	
11	151 01.8	345 26.9	N 6 09.7	321 48.8	S 3 03.6	59 57.4	N 23 26.5	72 16.0	N 22 19.9	162 54.6	S 7 28.6	312 07.2	S 9 24.6	54.0	Alphard	217 48.4	S 8 45.8	
12	166 04.3	0 27.2	N 6 08.8	336 48.5	S 3 04.8	74 58.2	N 23 26.6	87 18.2	N 22 19.9	177 57.2	S 7 28.7	326 43.0	S 9 38.0	54.0				
13	181 06.7	15 27.4	N 6 07.8	351 48.1	S 3 06.1	89 59.0	N 23 26.6	102 20.4	N 22 19.9	192 59.9	S 7 28.8	341 18.8	S 9 51.5	54.0	Alphecca	126 04.0	N 26 38.1	
14	196 09.2	30 27.6	N 6 06.9	6 47.8	S 3 07.4	104 59.9	N 23 26.6	117 22.6	N 22 20.0	208 02.5	S 7 28.9	355 54.5	S 10 04.9	54.0	Alpheratz	357 34.8	N 29 13.6	
15	211 11.7	45 27.8	N 6 06.0	21 47.5	S 3 08.7	120 00.7	N 23 26.7	132 24.8	N 22 20.0	223 05.2	S 7 28.9	10 30.2	S 10 18.3	54.0	Altair	62 00.0	N 8 56.1	
16	226 14.1	60 28.0	N 6 05.0	36 47.2	S 3 10.0	135 01.5	N 23 26.7	147 27.0	N 22 20.0	238 07.8	S 7 29.0	25 05.9	S 10 31.7	54.0	Ankaa	353 07.1	S 42 10.1	
17	241 16.6	75 28.2	N 6 04.1	51 46.9	S 3 11.3	150 02.4	N 23 26.7	162 29.2	N 22 20.0	253 10.4	S 7 29.1	39 41.5	S 10 45.0	54.0	Antares	112 16.2	S 26 29.2	
18	256 19.1	90 28.4	N 6 03.1	66 46.6	S 3 12.6	165 03.2	N 23 26.8	177 31.4	N 22 20.0	268 13.1	S 7 29.2	54 17.1	S 10 58.3	54.1				
19	271 21.5	105 28.6	N 6 02.2	81 46.2	S 3 13.8	180 04.0	N 23 26.8	192 33.6	N 22 20.1	283 15.7	S 7 29.2	68 52.6	S 11 11.5	54.1	Arcturus	145 48.3	N 19 03.4	
20	286 24.0	120 28.9	N 6 01.3	96 45.9	S 3 15.1	195 04.8	N 23 26.8	207 35.8	N 22 20.1	298 18.4	S 7 29.3	83 28.1	S 11 24.7	54.1	Atria	107 10.6	S 69 04.5	
21	301 26.4	135 29.1	N 6 00.3	111 45.6	S 3 16.4	210 05.7	N 23 26.9	222 38.0	N 22 20.1	313 21.0	S 7 29.4	98 03.5	S 11 37.9	54.1	Avior	234 15.5	S 59 35.1	
22	316 28.9	150 29.3	N 5 59.4	126 45.3	S 3 17.7	225 06.5	N 23 26.9	237 40.2	N 22 20.1	328 23.7	S 7 29.5	112 38.9	S 11 51.0	54.1	Bellatrix	278 23.3	N 6 22.4	
23	331 31.4	165 29.5	N 5 58.5	141 45.0	S 3 19.0	240 07.3	N 23 26.9	252 42.4	N 22 20.1	343 26.3	S 7 29.6	127 14.3	S 12 04.1	54.1	Betelgeuse	270 52.6	N 7 24.8	
07 00	346 33.8	180 29.7	N 5 57.5	156 44.7	S 3 20.3	255 08.2	N 23 27.0	267 44.6	N 22 20.1	358 28.9	S 7 29.6	141 49.6	S 12 17.2	54.1	Canopus	263 52.8	S 52 42.2	
01	1 36.3	195 29.9	N 5 56.6	171 44.3	S 3 21.5	270 09.0	N 23 27.0	282 46.8	N 22 20.2	13 31.6	S 7 29.7	156 24.8	S 12 30.2	54.1	Capella	280 22.5	N 46 01.2	
02	16 38.8	210 30.1	N 5 55.7	186 44.0	S 3 22.8	285 09.8	N 23 27.0	297 49.0	N 22 20.2	28 34.2	S 7 29.8	171 00.0	S 12 43.1	54.1	Castor	245 57.7	N 31 50.1	
03	31 41.2	225 30.4	N 5 54.7	201 43.7	S 3 24.1	300 10.7	N 23 27.1	312 51.2	N 22 20.2	43 36.9	S 7 29.9	185 35.1	S 12 56.0	54.1	Deneb	49 25.6	N 45 22.2	
04	46 43.7	240 30.6	N 5 53.8	216 43.4	S 3 25.4	315 11.5	N 23 27.1	327 53.3	N 22 20.2	58 39.5	S 7 29.9	200 10.2	S 13 08.9	54.1	Denebola	182 25.5	N 14 26.2	
05	61 46.2	255 30.8	N 5 52.8	231 43.1	S 3 26.7	330 12.3	N 23 27.1	342 55.5	N 22 20.2	73 42.1	S 7 30.0	214 45.3	S 13 21.7	54.1				
06	76 48.6	270 31.0	N 5 51.9	246 42.8	S 3 28.0	345 13.2	N 23 27.2	357 57.7	N 22 20.3	88 44.8	S 7 30.1	229 20.3	S 13 34.5	54.1	Diphda	348 47.3	S 17 50.9	
07	91 51.1	285 31.2	N 5 51.0	261 42.4	S 3 29.2	0 14.0	N 23 27.2	12 59.9	N 22 20.3	103 47.4	S 7 30.2	243 55.2	S 13 47.2	54.1	Dubhe	193 42.0	N 61 37.2	
08	106 53.6	300 31.4	N 5 50.0	276 42.1	S 3 30.5	15 14.8	N 23 27.2	28 02.1	N 22 20.3	118 50.1	S 7 30.2	258 30.1	S 13 59.9	54.2	Elnath	278 02.4	N 28 37.7	
09	121 56.0	315 31.6	N 5 49.1	291 41.8	S 3 31.8	30 15.7	N 23 27.3	43 04.3	N 22 20.3	133 52.7	S 7 30.3	273 04.9	S 14 12.5	54.2	Etamin	90 42.1	N 51 29.4	
10	136 58.5	330 31.9	N 5 48.2	306 41.5	S 3 33.1	45 16.5	N 23 27.3	58 06.5	N 22 20.3	148 55.3	S 7 30.4	287 39.7	S 14 25.1	54.2	Enif	33 38.8	N 9 59.4	
11	152 00.9	345 32.1	N 5 47.2	321 41.2	S 3 34.4	60 17.3	N 23 27.3	73 08.7	N 22 20.3	163 58.0	S 7 30.5	302 14.4	S 14 37.7	54.2				
12	167 03.4	0 32.3	N 5 46.3	336 40.8	S 3 35.7	75 18.2	N 23 27.4	88 10.9	N 22 20.4	179 00.6	S 7 30.6	316 49.0	S 14 50.1	54.2	Fomalhaut	15 14.5	S 29 29.4	
13	182 05.9	15 32.5	N 5 45.3	351 40.5	S 3 36.9	90 19.0	N 23 27.4	103 13.1	N 22 20.4	194 03.3	S 7 30.6	331 23.6	S 15 02.6	54.2	Gacrux	171 52.5	S 57 15.2	
14	197 08.3	30 32.7	N 5 44.4	6 40.2	S 3 38.2	105 19.8	N 23 27.4	118 15.3	N 22 20.4	209 05.9	S 7 30.7	345 58.1	S 15 14.9	54.2	Gienah	175 44.2	S 17 40.7	
15	212 10.8	45 32.9	N 5 43.5	21 39.9	S 3 39.5	120 20.7	N 23 27.4	133 17.5	N 22 20.4	224 08.5	S 7 30.8	0 32.6	S 15 27.3	54.2	Hadar	148 36.8	S 60 29.7	
16	227 13.3	60 33.1	N 5 42.5	36 39.6	S 3 40.8	135 21.5	N 23 27.5	148 19.7	N 22 20.4	239 11.2	S 7 30.9	15 07.0	S 15 39.5	54.2	Hamal	327 51.4	N 23 34.7	
17	242 15.7	75 33.4	N 5 41.6	51 39.3	S 3 42.1	150 22.3	N 23 27.5	163 21.9	N 22 20.4	254 13.8	S 7 30.9	29 41.3	S 15 51.7	54.2				
18	257 18.2	90 33.6	N 5 40.6	66 38.9	S 3 43.4	165 23.2	N 23 27.5	178 24.1	N 22 20.5	269 16.5	S 7 31.0	44 15.6	S 16 03.9	54.2	Kaus aust.	83 32.7	S 34 22.4	
19	272 20.7	105 33.8	N 5 39.7	81 38.6	S 3 44.6	180 24.0	N 23 27.6	193 26.3	N 22 20.5	284 19.1	S 7 31.1	58 49.8	S 16 16.0	54.3	Kochab	137 20.1	N 74 03.5	
20	287 23.1	120 34.0	N 5 38.8	96 38.3	S 3 45.9	195 24.8	N 23 27.6	208 28.5	N 22 20.5	299 21.8	S 7 31.2	73 23.9	S 16 28.0	54.3	Markab	13 29.9	N 15 20.4	
21	302 25.6	135 34.2	N 5 37.8	111 38.0	S 3 47.2	210 25.7	N 23 27.6	223 30.7	N 22 20.5	314 24.4	S 7 31.2	87 58.0	S 16 40.0	54.3	Menkar	314 06.4	N 4 11.3	
22	317 28.0	150 34.4	N 5 36.9	126 37.7	S 3 48.5	225 26.5	N 23 27.6	238 32.9	N 22 20.5	329 27.0	S 7 31.3	102 32.0	S 16 51.9	54.3	Menkent	147 58.2	S 36 29.5	
23	332 30.5	165 34.6	N 5 35.9	141 37.3	S 3 49.8	240 27.4	N 23 27.7	253 35.1	N 22 20.6	344 29.7	S 7 31.4	117 05.9	S 17 03.8	54.3				
08 00	347 33.0	180 34.9	N 5 35.0	156 37.0	S 3 51.1	255 28.2	N 23 27.7	268 37.4	N 22 20.6	359 32.3	S 7 31.5	131 39.7	S 17 15.6	54.3	Miaplacidus	221 39.3	S 69 48.9	
01	2 35.4	195 35.1	N 5 34.1	171 36.7	S 3 52.3	270 29.0	N 23 27.7	283 39.6	N 22 20.6	14 35.0	S 7 31.5	146 13.5	S 17 27.3	54.3	Mirfak	308 28.6	N 49 56.8	
02	17 37																	

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	AGOSTO	31
09 00	348 32.1	180 40.1	N 5 12.4	156 29.3	S 4 21.8	255 48.4	N 23 28.3	269 30.3	N 22 21.0	0 35.7	S 7 33.3	120 48.9	S 21 37.5	54.7	NOME	360	- AR	Dec.
01	3 34.6	195 40.3	N 5 11.4	171 29.0	S 4 23.0	270 49.2	N 23 28.3	284 32.5	N 22 21.0	15 38.3	S 7 33.4	135 20.7	S 21 47.4	54.7	Acamar	315	11.8	S 40 12.0
02	18 37.0	210 40.5	N 5 10.5	186 28.7	S 4 24.3	285 50.1	N 23 28.3	299 34.7	N 22 21.0	30 41.0	S 7 33.5	149 52.5	S 21 57.2	54.7	Achernar	335	20.0	S 57 06.4
03	33 39.5	225 40.7	N 5 09.5	201 28.4	S 4 25.6	300 50.9	N 23 28.3	314 36.9	N 22 21.0	45 43.6	S 7 33.5	164 24.1	S 22 07.0	54.7	Acruz	173	01.1	S 63 14.2
04	48 42.0	240 40.9	N 5 08.6	216 28.0	S 4 26.9	315 51.8	N 23 28.3	329 39.2	N 22 21.0	60 46.3	S 7 33.6	178 55.7	S 22 16.6	54.8	Adhara	255	06.3	S 29 00.0
05	63 44.4	255 41.1	N 5 07.6	231 27.7	S 4 28.2	330 52.6	N 23 28.4	344 41.4	N 22 21.1	75 48.9	S 7 33.7	193 27.2	S 22 26.2	54.8	Aldebaran	290	40.0	N 16 33.6
06	78 46.9	270 41.4	N 5 06.7	246 27.4	S 4 29.4	345 53.5	N 23 28.4	359 43.6	N 22 21.1	90 51.6	S 7 33.8	207 58.5	S 22 35.7	54.8				
07	93 49.4	285 41.6	N 5 05.8	261 27.1	S 4 30.7	0 54.3	N 23 28.4	14 45.8	N 22 21.1	105 54.2	S 7 33.8	222 29.8	S 22 45.0	54.8	Alioth	166	13.6	N 55 49.8
08	108 51.8	300 41.8	N 5 04.8	276 26.7	S 4 32.0	15 55.2	N 23 28.4	29 48.0	N 22 21.1	120 56.8	S 7 33.9	237 01.0	S 22 54.3	54.8	Alkaid	152	52.5	N 49 11.7
09	123 54.3	315 42.0	N 5 03.9	291 26.4	S 4 33.3	30 56.0	N 23 28.4	44 50.2	N 22 21.1	135 59.5	S 7 34.0	251 32.1	S 23 03.5	54.9	Alnair	27	32.8	S 46 50.4
10	138 56.8	330 42.2	N 5 02.9	306 26.1	S 4 34.5	45 56.9	N 23 28.4	59 52.4	N 22 21.1	151 02.1	S 7 34.1	266 03.1	S 23 12.6	54.9	Alnilam	275	38.1	S 1 11.0
11	153 59.2	345 42.5	N 5 02.0	321 25.8	S 4 35.8	60 57.7	N 23 28.5	74 54.6	N 22 21.2	166 04.8	S 7 34.2	280 34.0	S 23 21.6	54.9	Alphard	217	48.4	S 8 45.8
12	169 01.7	0 42.7	N 5 01.0	336 25.5	S 4 37.1	75 58.6	N 23 28.5	89 56.9	N 22 21.2	181 07.4	S 7 34.2	295 04.9	S 23 30.5	54.9				
13	184 04.1	15 42.9	N 5 00.1	351 25.1	S 4 38.4	90 59.4	N 23 28.5	104 59.1	N 22 21.2	196 10.0	S 7 34.3	309 35.6	S 23 39.3	55.0	Alphecca	126	04.0	N 26 38.1
14	199 06.6	30 43.1	N 4 59.1	6 24.8	S 4 39.7	106 00.3	N 23 28.5	120 01.3	N 22 21.2	211 12.7	S 7 34.4	324 06.2	S 23 48.0	55.0	Alpheratz	357	34.8	N 29 13.6
15	214 09.1	45 43.3	N 4 58.2	21 24.5	S 4 40.9	121 01.1	N 23 28.5	135 03.5	N 22 21.2	226 15.3	S 7 34.5	338 36.8	S 23 56.5	55.0	Altair	62	00.0	N 8 56.1
16	229 11.5	60 43.5	N 4 57.2	36 24.2	S 4 42.2	136 02.0	N 23 28.6	150 05.7	N 22 21.2	241 18.0	S 7 34.5	353 07.2	S 24 05.0	55.0	Ankaa	353	07.1	S 42 10.1
17	244 14.0	75 43.8	N 4 56.3	51 23.8	S 4 43.5	151 02.8	N 23 28.6	165 07.9	N 22 21.3	256 20.6	S 7 34.6	7 37.5	S 24 13.4	55.0	Antares	112	16.2	S 26 29.2
18	259 16.5	90 44.0	N 4 55.3	66 23.5	S 4 44.8	166 03.7	N 23 28.6	180 10.2	N 22 21.3	271 23.2	S 7 34.7	22 07.8	S 24 21.7	55.1				
19	274 18.9	105 44.2	N 4 54.4	81 23.2	S 4 46.0	181 04.5	N 23 28.6	195 12.4	N 22 21.3	286 25.9	S 7 34.8	36 38.0	S 24 29.9	55.1	Arcturus	145	48.3	N 19 03.4
20	289 21.4	120 44.4	N 4 53.5	96 22.9	S 4 47.3	196 05.4	N 23 28.6	210 14.6	N 22 21.3	301 28.5	S 7 34.8	51 08.0	S 24 37.9	55.1	Atria	107	10.6	S 69 04.6
21	304 23.9	135 44.6	N 4 52.5	111 22.5	S 4 48.6	211 06.2	N 23 28.6	225 16.8	N 22 21.3	316 31.2	S 7 34.9	65 38.0	S 24 45.9	55.1	Avior	234	15.4	S 59 35.0
22	319 26.3	150 44.9	N 4 51.6	126 22.2	S 4 49.9	226 07.1	N 23 28.6	240 19.0	N 22 21.3	331 33.8	S 7 35.0	80 07.8	S 24 53.7	55.2	Bellatrix	278	23.3	N 6 22.4
23	334 28.8	165 45.1	N 4 50.6	141 21.9	S 4 51.1	241 07.9	N 23 28.7	255 21.2	N 22 21.3	346 36.5	S 7 35.1	94 37.6	S 25 01.4	55.2	Betelgeuse	270	52.5	N 7 24.8
10 00	349 31.3	180 45.3	N 4 49.7	156 21.6	S 4 52.4	256 08.8	N 23 28.7	270 23.5	N 22 21.4	1 39.1	S 7 35.1	109 07.3	S 25 09.0	55.2	Canopus	263	52.8	S 52 42.2
01	4 33.7	195 45.5	N 4 48.7	171 21.2	S 4 53.7	271 09.6	N 23 28.7	285 25.7	N 22 21.4	16 41.7	S 7 35.2	123 36.9	S 25 16.5	55.2	Capella	280	22.4	N 46 01.2
02	19 36.2	210 45.7	N 4 47.8	186 20.9	S 4 55.0	286 10.5	N 23 28.7	300 27.9	N 22 21.4	31 44.4	S 7 35.3	138 06.4	S 25 23.9	55.3	Castor	245	57.7	N 31 50.1
03	34 38.6	225 45.9	N 4 46.8	201 20.6	S 4 56.2	301 11.3	N 23 28.7	315 30.1	N 22 21.4	46 47.0	S 7 35.4	152 35.7	S 25 31.2	55.3	Deneb	49	25.6	N 45 22.2
04	49 41.1	240 46.2	N 4 45.9	216 20.3	S 4 57.5	316 12.2	N 23 28.7	330 32.3	N 22 21.4	61 49.7	S 7 35.4	167 05.0	S 25 38.3	55.3	Denebola	182	25.5	N 44 26.2
05	64 43.6	255 46.4	N 4 44.9	231 19.9	S 4 58.8	331 13.0	N 23 28.7	345 34.5	N 22 21.4	76 52.3	S 7 35.5	181 34.2	S 25 45.4	55.3				
06	79 46.0	270 46.6	N 4 44.0	246 19.6	S 5 00.1	346 13.9	N 23 28.8	0 36.8	N 22 21.5	91 54.9	S 7 35.6	196 03.3	S 25 52.3	55.4	Diphda	348	47.3	S 17 50.9
07	94 48.5	285 46.8	N 4 43.0	261 19.3	S 5 01.3	1 14.7	N 23 28.8	15 39.0	N 22 21.5	106 57.6	S 7 35.7	210 32.3	S 25 59.1	55.4	Dubhe	193	42.0	N 61 37.2
08	109 51.0	300 47.0	N 4 42.1	276 19.0	S 5 02.6	16 15.6	N 23 28.8	30 41.2	N 22 21.5	122 00.2	S 7 35.8	225 01.3	S 26 05.7	55.4	Elnath	278	02.3	N 28 37.7
09	124 53.4	315 47.3	N 4 41.1	291 18.6	S 5 03.9	31 16.4	N 23 28.8	45 43.4	N 22 21.5	137 02.9	S 7 35.8	239 30.1	S 26 12.3	55.4	Etamin	90	42.1	N 51 29.4
10	139 55.9	330 47.5	N 4 40.2	306 18.3	S 5 05.2	46 17.3	N 23 28.8	60 45.6	N 22 21.5	152 05.5	S 7 35.9	253 58.8	S 26 18.7	55.5	Enif	33	38.8	N 9 59.4
11	154 58.4	345 47.7	N 4 39.2	321 18.0	S 5 06.4	61 18.2	N 23 28.8	75 47.9	N 22 21.5	167 08.1	S 7 36.0	268 27.4	S 26 25.0	55.5				
12	170 00.8	0 47.9	N 4 38.3	336 17.7	S 5 07.7	76 19.0	N 23 28.8	90 50.1	N 22 21.6	182 10.8	S 7 36.1	282 56.0	S 26 31.2	55.5	Fomalhaut	15	14.5	S 29 29.4
13	185 03.3	15 48.1	N 4 37.3	351 17.3	S 5 09.0	91 19.9	N 23 28.8	105 52.3	N 22 21.6	197 13.4	S 7 36.1	297 24.4	S 26 37.2	55.6	Gacrux	171	52.5	S 57 15.1
14	200 05.8	30 48.4	N 4 36.4	6 17.0	S 5 10.2	106 20.7	N 23 28.9	120 54.5	N 22 21.6	212 16.1	S 7 36.2	311 52.7	S 26 43.1	55.6	Gienah	175	44.2	S 17 40.7
15	215 08.2	45 48.6	N 4 35.4	21 16.7	S 5 11.5	121 21.6	N 23 28.9	135 56.8	N 22 21.6	227 18.7	S 7 36.3	326 21.0	S 26 48.9	55.6	Hadar	148	36.8	S 60 29.7
16	230 10.7	60 48.8	N 4 34.5	36 16.4	S 5 12.8	136 22.4	N 23 28.9	150 59.0	N 22 21.6	242 21.4	S 7 36.4	340 49.2	S 26 54.6	55.6	Hamal	327	51.3	N 23 34.8
17	245 13.1	75 49.0	N 4 33.5	51 16.0	S 5 14.1	151 23.3	N 23 28.9	166 01.2	N 22 21.6	257 24.0	S 7 36.4	355 17.2	S 27 00.1	55.7				
18	260 15.6	90 49.2	N 4 32.6	66 15.7	S 5 15.3	166 24.2	N 23 28.9	181 03.4	N 22 21.6	272 26.6	S 7 36.5	9 45.2	S 27 05.4	55.7	Kaus aust.	83	32.7	S 34 22.4
19	275 18.1	105 49.5	N 4 31.6	81 15.4	S 5 16.6	181 25.0	N 23 28.9	196 05.6	N 22 21.7	287 29.3	S 7 36.6	24 13.1	S 27 10.7	55.7	Kochab	137	20.2	N 74 03.5
20	290 20.5	120 49.7	N 4 30.7	96 15.0	S 5 17.9	196 25.9	N 23 28.9	211 07.9	N 22 21.7	302 31.9	S 7 36.7	38 40.9	S 27 15.8	55.8	Markab	13	29.9	N 15 20.4
21	305 23.0	135 49.9	N 4 29.7	111 14.7	S 5 19.2	211 26.7	N 23 28.9	226 10.1	N 22 21.7	317 34.6	S 7 36.7	53 08.6	S 27 20.8	55.8	Menkar	314	06.3	N 4 11.3
22	320 25.5	150 50.1	N 4 28.8	126 14.4	S 5 20.4	226 27.6	N 23 28.9	241 12.3	N 22 21.7	332 37.2	S 7 36.8	67 36.2	S 27 25.6	55.8	Menkent	147	58.2	S 36 29.5
23	335 27.9	165 50.3	N 4 27.8	141 14.1	S 5 21.7	241 28.4	N 23 28.9	256 14.5	N 22 21.7	347 39.8	S 7 36.9	82 03.8	S 27 30.3	55.9				
11 00	350 30.4	180 50.6	N 4 26.9	156 13.7	S 5 23.0	256 29.3	N 23 28.9	271 16.8	N 22 21.7	2 42.5	S 7 37.0	96 31.2	S 27 34.9	55.9	Miaplacidus	221	39.3	S 69 48.9
01	5 32.9	195 50.8	N 4 25.9	171 13.4	S 5 24.2	271 30.2	N 23 29.0	286 19.0	N 22 21.8	17 45.1	S 7 37.0	110 58.6	S 27 39.3	55.9	Mirfak	308	28.6	N 49 56.8
02	20 35.3	210 51.0	N 4 25.0	186 13.1	S 5 25.5	286 31.0	N 23 29.0	301 21.2	N 22 21.8	3								

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	SETTEMBRE	01
d h	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	'	NOME	360	- AR	Dec.
12 00	351 29.5	180 55.9	N 4 04.0	156 05.8	S 5 53.4	256 50.0	N 23 29.1	272 10.3	N 22 22.1	3 45.9	S 7 38.8	83 06.4	S 28 39.2	56.7	NOME	360	- AR	Dec.
01	6 32.0	195 56.1	N 4 03.0	171 05.5	S 5 54.7	271 50.9	N 23 29.1	287 12.5	N 22 22.1	18 48.5	S 7 38.9	97 32.0	S 28 39.9	56.7	Acamar	315 11.8	S 40 12.0	
02	21 34.5	210 56.3	N 4 02.1	186 05.1	S 5 56.0	286 51.8	N 23 29.1	302 14.7	N 22 22.1	33 51.1	S 7 38.9	111 57.6	S 28 40.4	56.8	Achernar	335 20.0	S 57 06.4	
03	36 36.9	225 56.5	N 4 01.1	201 04.8	S 5 57.2	301 52.6	N 23 29.1	317 17.0	N 22 22.1	48 53.8	S 7 39.0	126 23.1	S 28 40.8	56.8	Acruux	173 01.1	S 63 14.2	
04	51 39.4	240 56.8	N 4 00.2	216 04.5	S 5 58.5	316 53.5	N 23 29.1	332 19.2	N 22 22.2	63 56.4	S 7 39.1	140 48.6	S 28 41.0	56.8	Adhara	255 06.3	S 29 00.0	
05	66 41.9	255 57.0	N 3 59.2	231 04.1	S 5 59.7	331 54.4	N 23 29.1	347 21.4	N 22 22.2	78 59.1	S 7 39.2	155 14.0	S 28 41.0	56.9	Aldebaran	290 40.0	N 16 33.6	
06	81 44.3	270 57.2	N 3 58.3	246 03.8	S 6 01.0	346 55.2	N 23 29.1	2 23.7	N 22 22.2	94 01.7	S 7 39.2	169 39.3	S 28 40.9	56.9				
07	96 46.8	285 57.4	N 3 57.3	261 03.5	S 6 02.3	1 56.1	N 23 29.1	17 25.9	N 22 22.2	109 04.3	S 7 39.3	184 04.6	S 28 40.6	56.9	Alioth	166 13.6	N 55 49.8	
08	111 49.2	300 57.6	N 3 56.4	276 03.1	S 6 03.5	16 57.0	N 23 29.1	32 28.1	N 22 22.2	124 07.0	S 7 39.4	198 29.9	S 28 40.1	57.0	Alkaid	152 52.5	N 49 11.7	
09	126 51.7	315 57.9	N 3 55.4	291 02.8	S 6 04.8	31 57.8	N 23 29.1	47 30.4	N 22 22.2	139 09.6	S 7 39.5	212 55.1	S 28 39.5	57.0	Alnair	27 32.8	S 46 50.4	
10	141 54.2	330 58.1	N 3 54.5	306 02.5	S 6 06.1	46 58.7	N 23 29.1	62 32.6	N 22 22.2	154 12.3	S 7 39.5	227 20.3	S 28 38.7	57.1	Alnilam	275 38.1	S 1 11.0	
11	156 56.6	345 58.3	N 3 53.5	321 02.1	S 6 07.3	61 59.6	N 23 29.1	77 34.9	N 22 22.3	169 14.9	S 7 39.6	241 45.5	S 28 37.7	57.1	Alphard	217 48.4	S 8 45.8	
12	171 59.1	0 58.5	N 3 52.5	336 01.8	S 6 08.6	77 00.5	N 23 29.1	92 37.1	N 22 22.3	184 17.6	S 7 39.7	256 10.6	S 28 36.6	57.1				
13	187 01.6	15 58.7	N 3 51.6	351 01.5	S 6 09.9	92 01.3	N 23 29.1	107 39.3	N 22 22.3	199 20.2	S 7 39.8	270 35.6	S 28 35.2	57.2	Alphecca	126 04.1	N 26 38.1	
14	202 04.0	30 59.0	N 3 50.6	6 01.1	S 6 11.1	107 02.2	N 23 29.1	122 41.6	N 22 22.3	214 22.8	S 7 39.8	285 00.7	S 28 33.7	57.2	Alpheratz	357 34.8	N 29 13.6	
15	217 06.5	45 59.2	N 3 49.7	21 00.8	S 6 12.4	122 03.1	N 23 29.1	137 43.8	N 22 22.3	229 25.5	S 7 39.9	299 25.7	S 28 32.0	57.2	Altair	62 00.0	N 8 56.1	
16	232 09.0	60 59.4	N 3 48.7	36 00.5	S 6 13.7	137 03.9	N 23 29.1	152 46.0	N 22 22.3	244 28.1	S 7 40.0	313 50.6	S 28 30.2	57.3	Ankaa	353 07.0	S 42 10.1	
17	247 11.4	75 59.6	N 3 47.8	51 00.1	S 6 14.9	152 04.8	N 23 29.1	167 48.3	N 22 22.3	259 30.8	S 7 40.1	328 15.6	S 28 28.2	57.3	Antares	112 16.2	S 26 29.2	
18	262 13.9	90 59.9	N 3 46.8	65 59.8	S 6 16.2	167 05.7	N 23 29.1	182 50.5	N 22 22.4	274 33.4	S 7 40.1	342 40.5	S 28 26.0	57.4				
19	277 16.4	106 00.1	N 3 45.8	80 59.5	S 6 17.4	182 06.6	N 23 29.1	197 52.8	N 22 22.4	289 36.0	S 7 40.2	357 05.4	S 28 23.6	57.4	Arcturus	145 48.3	N 19 03.4	
20	292 18.8	121 00.3	N 3 44.9	95 59.1	S 6 18.7	197 07.4	N 23 29.1	212 55.0	N 22 22.4	304 38.7	S 7 40.3	11 30.2	S 28 21.1	57.4	Atria	107 10.6	S 69 04.6	
21	307 21.3	136 00.5	N 3 43.9	110 58.8	S 6 20.0	212 08.3	N 23 29.1	227 57.2	N 22 22.4	319 41.3	S 7 40.4	25 55.1	S 28 18.3	57.5	Avior	234 15.4	S 59 35.0	
22	322 23.7	151 00.7	N 3 43.0	125 58.5	S 6 21.2	227 09.2	N 23 29.1	242 59.5	N 22 22.4	334 44.0	S 7 40.4	40 19.9	S 28 15.4	57.5	Bellatrix	278 23.3	N 6 22.4	
23	337 26.2	166 01.0	N 3 42.0	140 58.1	S 6 22.5	242 10.0	N 23 29.1	258 01.7	N 22 22.4	349 46.6	S 7 40.5	54 44.7	S 28 12.4	57.6	Betelgeuse	270 52.5	N 7 24.8	
13 00	352 28.7	181 01.2	N 3 41.1	155 57.8	S 6 23.8	257 10.9	N 23 29.1	273 04.0	N 22 22.4	4 49.2	S 7 40.6	69 09.5	S 28 09.1	57.6	Canopus	263 52.8	S 52 42.1	
01	7 31.1	196 01.4	N 3 40.1	170 57.5	S 6 25.0	272 11.8	N 23 29.1	288 06.2	N 22 22.5	19 51.9	S 7 40.7	83 34.3	S 28 05.7	57.6	Capella	280 22.4	N 46 01.2	
02	22 33.6	211 01.6	N 3 39.1	185 57.1	S 6 26.3	287 12.7	N 23 29.1	303 08.4	N 22 22.5	34 54.5	S 7 40.7	97 59.0	S 28 02.1	57.7	Castor	245 57.7	N 31 50.1	
03	37 36.1	226 01.9	N 3 38.2	200 56.8	S 6 27.5	302 13.5	N 23 29.1	318 10.7	N 22 22.5	49 57.2	S 7 40.8	112 23.8	S 27 58.3	57.7	Deneb	49 25.6	N 45 22.2	
04	52 38.5	241 02.1	N 3 37.2	215 56.4	S 6 28.8	317 14.4	N 23 29.1	333 12.9	N 22 22.5	64 59.8	S 7 40.9	126 48.5	S 27 54.3	57.8	Denebola	182 25.5	N 14 26.2	
05	67 41.0	256 02.3	N 3 36.3	230 56.1	S 6 30.1	332 15.3	N 23 29.1	348 15.2	N 22 22.5	80 02.4	S 7 41.0	141 13.2	S 27 50.2	57.8				
06	82 43.5	271 02.5	N 3 35.3	245 55.8	S 6 31.3	347 16.2	N 23 29.1	3 17.4	N 22 22.5	95 05.1	S 7 41.0	155 38.0	S 27 45.9	57.8	Diphda	348 47.3	S 17 50.9	
07	97 45.9	286 02.8	N 3 34.4	260 55.4	S 6 32.6	2 17.1	N 23 29.0	18 19.6	N 22 22.5	110 07.7	S 7 41.1	170 02.7	S 27 41.4	57.9	Dubhe	193 42.0	N 61 37.2	
08	112 48.4	301 03.0	N 3 33.4	275 55.1	S 6 33.8	17 17.9	N 23 29.0	33 21.9	N 22 22.5	125 10.4	S 7 41.2	184 27.4	S 27 36.7	57.9	Elnath	278 02.3	N 28 37.7	
09	127 50.9	316 03.2	N 3 32.4	290 54.8	S 6 35.1	32 18.8	N 23 29.0	48 24.1	N 22 22.6	140 13.0	S 7 41.3	198 52.1	S 27 31.9	58.0	Etamin	90 42.1	N 51 29.4	
10	142 53.3	331 03.4	N 3 31.5	305 54.4	S 6 36.4	47 19.7	N 23 29.0	63 26.4	N 22 22.6	155 15.6	S 7 41.3	213 16.9	S 27 26.8	58.0	Enif	33 38.8	N 9 59.4	
11	157 55.8	346 03.6	N 3 30.5	320 54.1	S 6 37.6	62 20.6	N 23 29.0	78 28.6	N 22 22.6	170 18.3	S 7 41.4	227 41.6	S 27 21.6	58.0				
12	172 58.2	1 03.9	N 3 29.6	335 53.7	S 6 38.9	77 21.4	N 23 29.0	93 30.9	N 22 22.6	185 20.9	S 7 41.5	242 06.3	S 27 16.3	58.1	Fomalhaut	15 14.4	S 29 29.4	
13	188 00.7	16 04.1	N 3 28.6	350 53.4	S 6 40.1	92 22.3	N 23 29.0	108 33.1	N 22 22.6	200 23.6	S 7 41.6	256 31.1	S 27 10.7	58.1	Gacrux	171 52.5	S 57 15.1	
14	203 03.2	31 04.3	N 3 27.7	5 53.1	S 6 41.4	107 23.2	N 23 29.0	123 35.4	N 22 22.6	215 26.2	S 7 41.6	270 55.8	S 27 05.0	58.2	Gienah	175 44.2	S 17 40.6	
15	218 05.6	46 04.5	N 3 26.7	20 52.7	S 6 42.7	122 24.1	N 23 29.0	138 37.6	N 22 22.6	230 28.8	S 7 41.7	285 20.6	S 26 59.1	58.2	Hadar	148 36.8	S 60 29.7	
16	233 08.1	61 04.8	N 3 25.7	35 52.4	S 6 43.9	137 25.0	N 23 29.0	153 39.8	N 22 22.7	245 31.5	S 7 41.8	299 45.4	S 26 53.0	58.2	Hamal	327 51.3	N 23 34.8	
17	248 10.6	76 05.0	N 3 24.8	50 52.1	S 6 45.2	152 25.8	N 23 29.0	168 42.1	N 22 22.7	260 34.1	S 7 41.9	314 10.1	S 26 46.7	58.3				
18	263 13.0	91 05.2	N 3 23.8	65 51.7	S 6 46.4	167 26.7	N 23 29.0	183 44.3	N 22 22.7	275 36.8	S 7 41.9	328 35.0	S 26 40.3	58.3	Kaus aust.	83 32.7	S 34 22.4	
19	278 15.5	106 05.4	N 3 22.9	80 51.4	S 6 47.7	182 27.6	N 23 29.0	198 46.6	N 22 22.7	290 39.4	S 7 42.0	342 59.8	S 26 33.7	58.4	Kochab	137 20.2	N 74 03.5	
20	293 18.0	121 05.7	N 3 21.9	95 51.0	S 6 48.9	197 28.5	N 23 29.0	213 48.8	N 22 22.7	305 42.0	S 7 42.1	357 24.6	S 26 26.9	58.4	Markab	13 29.9	N 15 20.4	
21	308 20.4	136 05.9	N 3 20.9	110 50.7	S 6 50.2	212 29.4	N 23 29.0	228 51.1	N 22 22.7	320 44.7	S 7 42.2	11 49.5	S 26 20.0	58.4	Menkar	314 06.3	N 4 11.3	
22	323 22.9	151 06.1	N 3 20.0	125 50.4	S 6 51.5	227 30.2	N 23 29.0	243 53.3	N 22 22.7	335 47.3	S 7 42.2	26 14.3	S 26 12.8	58.5	Menkent	147 58.2	S 36 29.5	
23	338 25.3	166 06.3	N 3 19.0	140 50.0	S 6 52.7	242 31.1	N 23 28.9	258 55.6	N 22 22.8	350 50.0	S 7 42.3	40 39.3	S 26 05.5	58.5				
14 00	353 27.8	181 06.5	N 3 18.1	155 49.7	S 6 54.0	257 32.0	N 23 28.9	273 57.8	N 22 22.8	5 52.6	S 7 42.4	55 04.2	S 25 58.0	58.6	Miaplacidus	221 39.3	S 69 48.9	
01	8 30.3	196 06.8	N 3 17.1	170 49.3	S 6 55.2	272 32.9	N 23 28.9	289 00.0	N 22 22.8	20 55.2	S 7 42.5	69 29.1	S 25 50.4	58.6	Mirfak	308 28.6	N 49	

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	SETTEMBRE	04
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
15 00	354 27.0	181 11.9	N 2 55.0	155 41.4	S 7 24.0	257 53.3	N 23 28.7	274 51.9	N 22 23.1	6 56.0	S 7 44.2	41 13.1	S 22 08.6	59.5	NOME	360	- AR	Dec.
01	9 29.4	196 12.1	N 2 54.0	170 41.1	S 7 25.3	272 54.2	N 23 28.6	289 54.1	N 22 23.1	21 58.6	S 7 44.3	55 39.1	S 21 57.0	59.5	Acamar	315 11.8	S 40 12.0	
02	24 31.9	211 12.4	N 2 53.1	185 40.7	S 7 26.5	287 55.1	N 23 28.6	304 56.4	N 22 23.1	37 01.2	S 7 44.3	70 05.0	S 21 45.3	59.6	Achernar	335 19.9	S 57 06.4	
03	39 34.3	226 12.6	N 2 52.1	200 40.4	S 7 27.8	302 56.0	N 23 28.6	319 58.6	N 22 23.1	52 03.9	S 7 44.4	84 31.1	S 21 33.5	59.6	Acruux	173 01.1	S 63 14.2	
04	54 36.8	241 12.8	N 2 51.2	215 40.0	S 7 29.0	317 56.8	N 23 28.6	335 00.9	N 22 23.1	67 06.5	S 7 44.5	98 57.1	S 21 21.5	59.7	Adhara	255 06.3	S 29 00.0	
05	69 39.3	256 13.0	N 2 50.2	230 39.7	S 7 30.3	332 57.7	N 23 28.6	350 03.2	N 22 23.1	82 09.2	S 7 44.6	113 23.3	S 21 09.3	59.7	Aldebaran	290 39.9	N 16 33.6	
06	84 41.7	271 13.3	N 2 49.2	245 39.4	S 7 31.5	347 58.6	N 23 28.6	5 05.4	N 22 23.2	97 11.8	S 7 44.6	127 49.5	S 20 57.1	59.7				
07	99 44.2	286 13.5	N 2 48.3	260 39.0	S 7 32.8	2 59.5	N 23 28.6	20 07.7	N 22 23.2	112 14.4	S 7 44.7	142 15.7	S 20 44.6	59.8	Alioth	166 13.6	N 55 49.8	
08	114 46.7	301 13.7	N 2 47.3	275 38.7	S 7 34.0	18 00.4	N 23 28.5	35 09.9	N 22 23.2	127 17.1	S 7 44.8	156 42.0	S 20 32.1	59.8	Alkaid	152 52.5	N 49 11.6	
09	129 49.1	316 13.9	N 2 46.3	290 38.3	S 7 35.3	33 01.3	N 23 28.5	50 12.2	N 22 23.2	142 19.7	S 7 44.9	171 08.3	S 20 19.3	59.8	Alnair	27 32.8	S 46 50.5	
10	144 51.6	331 14.2	N 2 45.4	305 38.0	S 7 36.5	48 02.2	N 23 28.5	65 14.4	N 22 23.2	157 22.4	S 7 44.9	185 34.7	S 20 06.5	59.9	Alnilam	275 38.1	S 1 11.0	
11	159 54.1	346 14.4	N 2 44.4	320 37.6	S 7 37.8	63 03.1	N 23 28.5	80 16.7	N 22 23.2	172 25.0	S 7 45.0	200 01.2	S 19 53.5	59.9	Alphard	217 48.3	S 8 45.8	
12	174 56.5	1 14.6	N 2 43.5	335 37.3	S 7 39.0	78 04.0	N 23 28.5	95 19.0	N 22 23.2	187 27.6	S 7 45.1	214 27.7	S 19 40.4	59.9				
13	189 59.0	16 14.8	N 2 42.5	350 36.9	S 7 40.3	93 04.9	N 23 28.5	110 21.2	N 22 23.2	202 30.3	S 7 45.2	228 54.3	S 19 27.1	60.0	Alphecca	126 04.1	N 26 38.1	
14	205 01.5	31 15.0	N 2 41.5	5 36.6	S 7 41.5	108 05.8	N 23 28.4	125 23.5	N 22 23.3	217 32.9	S 7 45.2	243 20.9	S 19 13.7	60.0	Alpheratz	357 34.7	N 29 13.6	
15	220 03.9	46 15.3	N 2 40.6	20 36.2	S 7 42.8	123 06.7	N 23 28.4	140 25.7	N 22 23.3	232 35.5	S 7 45.3	257 47.5	S 19 00.2	60.0	Altair	62 00.0	N 8 56.1	
16	235 06.4	61 15.5	N 2 39.6	35 35.9	S 7 44.0	138 07.6	N 23 28.4	155 28.0	N 22 23.3	247 38.2	S 7 45.4	272 14.3	S 18 46.5	60.1	Ankaa	353 07.0	S 42 10.1	
17	250 08.8	76 15.7	N 2 38.6	50 35.5	S 7 45.2	153 08.5	N 23 28.4	170 30.3	N 22 23.3	262 40.8	S 7 45.4	286 41.0	S 18 32.7	60.1	Antares	112 16.2	S 26 29.2	
18	265 11.3	91 15.9	N 2 37.7	65 35.2	S 7 46.5	168 09.4	N 23 28.4	185 32.5	N 22 23.3	277 43.5	S 7 45.5	301 07.9	S 18 18.8	60.1				
19	280 13.8	106 16.2	N 2 36.7	80 34.8	S 7 47.7	183 10.3	N 23 28.3	200 34.8	N 22 23.3	292 46.1	S 7 45.6	315 34.8	S 18 04.7	60.2	Arcturus	145 48.4	N 19 03.4	
20	295 16.2	121 16.4	N 2 35.7	95 34.5	S 7 49.0	198 11.2	N 23 28.3	215 37.1	N 22 23.3	307 48.7	S 7 45.7	330 01.7	S 17 50.6	60.2	Atria	107 10.7	S 69 04.6	
21	310 18.7	136 16.6	N 2 34.8	110 34.1	S 7 50.2	213 12.1	N 23 28.3	230 39.3	N 22 23.3	322 51.4	S 7 45.7	344 28.7	S 17 36.3	60.2	Avior	234 15.4	S 59 35.0	
22	325 21.2	151 16.8	N 2 33.8	125 33.8	S 7 51.5	228 12.9	N 23 28.3	245 41.6	N 22 23.4	337 54.0	S 7 45.8	358 55.8	S 17 21.9	60.3	Bellatrix	278 23.3	N 6 22.5	
23	340 23.6	166 17.1	N 2 32.9	140 33.4	S 7 52.7	243 13.8	N 23 28.3	260 43.8	N 22 23.4	352 56.7	S 7 45.9	13 22.9	S 17 07.3	60.3	Betelgeuse	270 52.5	N 7 24.8	
16 00	355 26.1	181 17.3	N 2 31.9	155 33.1	S 7 54.0	258 14.7	N 23 28.2	275 46.1	N 22 23.4	7 59.3	S 7 46.0	27 50.0	S 16 52.7	60.3	Canopus	263 52.8	S 52 42.1	
01	10 28.6	196 17.5	N 2 30.9	170 32.7	S 7 55.2	273 15.6	N 23 28.2	290 48.4	N 22 23.4	23 01.9	S 7 46.0	42 17.2	S 16 37.9	60.4	Capella	280 22.4	N 46 01.2	
02	25 31.0	211 17.7	N 2 30.0	185 32.4	S 7 56.4	288 16.5	N 23 28.2	305 50.6	N 22 23.4	38 04.6	S 7 46.1	56 44.5	S 16 23.0	60.4	Castor	245 57.7	N 31 50.1	
03	40 33.5	226 18.0	N 2 29.0	200 32.0	S 7 57.7	303 17.4	N 23 28.2	320 52.9	N 22 23.4	53 07.2	S 7 46.2	71 11.8	S 16 08.0	60.4	Deneb	49 25.6	N 45 22.2	
04	55 35.9	241 18.2	N 2 28.0	215 31.7	S 7 58.9	318 18.3	N 23 28.2	335 55.2	N 22 23.4	68 09.9	S 7 46.3	85 39.2	S 15 52.9	60.5	Denebola	182 25.5	N 44 26.2	
05	70 38.4	256 18.4	N 2 27.1	230 31.3	S 8 00.2	333 19.2	N 23 28.1	350 57.4	N 22 23.4	83 12.5	S 7 46.3	100 06.6	S 15 37.7	60.5				
06	85 40.9	271 18.6	N 2 26.1	245 31.0	S 8 01.4	348 20.1	N 23 28.1	5 59.7	N 22 23.4	98 15.1	S 7 46.4	114 34.1	S 15 22.4	60.5	Diphda	348 47.3	S 17 50.9	
07	100 43.3	286 18.9	N 2 25.1	260 30.6	S 8 02.7	3 21.0	N 23 28.1	21 02.0	N 22 23.5	113 17.8	S 7 46.5	129 01.6	S 15 06.9	60.6	Dubhe	193 42.0	N 61 37.2	
08	115 45.8	301 19.1	N 2 24.2	275 30.3	S 8 03.9	18 21.9	N 23 28.1	36 04.2	N 22 23.5	128 20.4	S 7 46.6	143 29.2	S 14 51.4	60.6	Elnath	278 02.3	N 28 37.7	
09	130 48.3	316 19.3	N 2 23.2	290 29.9	S 8 05.1	33 22.8	N 23 28.1	51 06.5	N 22 23.5	143 23.0	S 7 46.6	157 56.8	S 14 35.7	60.6	Etamin	90 42.1	N 51 29.4	
10	145 50.7	331 19.5	N 2 22.2	305 29.5	S 8 06.4	48 23.7	N 23 28.0	66 08.8	N 22 23.5	158 25.7	S 7 46.7	172 24.4	S 14 20.0	60.6	Enif	33 38.8	N 9 59.4	
11	160 53.2	346 19.8	N 2 21.3	320 29.2	S 8 07.6	63 24.6	N 23 28.0	81 11.0	N 22 23.5	173 28.3	S 7 46.8	186 52.2	S 14 04.1	60.7				
12	175 55.7	1 20.0	N 2 20.3	335 28.8	S 8 08.9	78 25.5	N 23 28.0	96 13.3	N 22 23.5	188 31.0	S 7 46.9	201 19.9	S 13 48.2	60.7	Fomalhaut	15 14.4	S 29 29.4	
13	190 58.1	16 20.2	N 2 19.4	350 28.5	S 8 10.1	93 26.5	N 23 28.0	111 15.6	N 22 23.5	203 33.6	S 7 46.9	215 47.7	S 13 32.2	60.7	Gacrux	171 52.5	S 57 15.1	
14	206 00.6	31 20.4	N 2 18.4	5 28.1	S 8 11.3	108 27.4	N 23 28.0	126 17.8	N 22 23.5	218 36.2	S 7 47.0	230 15.6	S 13 16.0	60.7	Gienah	175 44.2	S 17 40.6	
15	221 03.1	46 20.7	N 2 17.4	20 27.8	S 8 12.6	123 28.3	N 23 27.9	141 20.1	N 22 23.6	233 38.9	S 7 47.1	244 43.5	S 12 59.8	60.8	Hadar	148 36.9	S 60 29.7	
16	236 05.5	61 20.9	N 2 16.5	35 27.4	S 8 13.8	138 29.2	N 23 27.9	156 22.4	N 22 23.6	248 41.5	S 7 47.1	259 11.5	S 12 43.5	60.8	Hamal	327 51.3	N 23 34.8	
17	251 08.0	76 21.1	N 2 15.5	50 27.1	S 8 15.1	153 30.1	N 23 27.9	171 24.6	N 22 23.6	263 44.2	S 7 47.2	273 39.5	S 12 27.1	60.8				
18	266 10.4	91 21.3	N 2 14.5	65 26.7	S 8 16.3	168 31.0	N 23 27.9	186 26.9	N 22 23.6	278 46.8	S 7 47.3	288 07.5	S 12 10.6	60.8	Kaus aust.	83 32.7	S 34 22.4	
19	281 12.9	106 21.6	N 2 13.6	80 26.4	S 8 17.5	183 31.9	N 23 27.8	201 29.2	N 22 23.6	293 49.4	S 7 47.4	302 35.6	S 11 54.0	60.9	Kochab	137 20.2	N 74 03.5	
20	296 15.4	121 21.8	N 2 12.6	95 26.0	S 8 18.8	198 32.8	N 23 27.8	216 31.4	N 22 23.6	308 52.1	S 7 47.4	317 03.7	S 11 37.4	60.9	Markab	13 29.9	N 15 20.4	
21	311 17.8	136 22.0	N 2 11.6	110 25.6	S 8 20.0	213 33.7	N 23 27.8	231 33.7	N 22 23.6	323 54.7	S 7 47.5	331 31.9	S 11 20.6	60.9	Menkar	314 06.3	N 4 11.3	
22	326 20.3	151 22.2	N 2 10.7	125 25.3	S 8 21.2	228 34.6	N 23 27.8	246 36.0	N 22 23.6	338 57.3	S 7 47.6	346 00.1	S 11 03.8	60.9	Menkent	147 58.2	S 36 29.5	
23	341 22.8	166 22.5	N 2 09.7	140 24.9	S 8 22.5	243 35.5	N 23 27.7	261 38.3	N 22 23.6	354 00.0	S 7 47.7	0 28.3	S 10 46.9	61.0				
17 00	356 25.2	181 22.7	N 2 08.7	155 24.6	S 8 23.7	258 36.4	N 23 27.7	276 40.5	N 22 23.7	9 02.6	S 7 47.7	14 56.6	S 10 29.9	61.0	Miaplacidus	221 39.3	S 69 48.9	
01	11 27.7	196 22.9	N 2 07.8	170 24.2	S 8 25.0	273 37.3	N 23 27.7	291 42.8	N 22 23.7	24 05.3	S 7 47.8	29 24.4	S 10 12.9	61.0	Mirfak	308 28.5	N 49 56.8	
02																		

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	SETTEMBRE	07
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'			
18 00	357 24.4	181 28.1	N 1 45.5	155 15.9	S 8 53.3	258 58.3	N 23 27.0	277 35.1	N 22 23.9	10 05.9	S 7 49.5	2 24.6	S 3 25.3	61.3	NOME	360	- AR	Dec.
01	12 26.8	196 28.3	N 1 44.6	170 15.6	S 8 54.5	273 59.2	N 23 27.0	292 37.4	N 22 23.9	25 08.6	S 7 49.6	16 53.6	S 3 07.1	61.3	Acamar	315 11.8	S 40 12.0	
02	27 29.3	211 28.5	N 1 43.6	185 15.2	S 8 55.8	289 00.1	N 23 27.0	307 39.7	N 22 23.9	40 11.2	S 7 49.6	31 22.5	S 2 48.9	61.3	Achernar	335 19.9	S 57 06.4	
03	42 31.8	226 28.7	N 1 42.6	200 14.8	S 8 57.0	304 01.0	N 23 27.0	322 42.0	N 22 24.0	55 13.8	S 7 49.7	45 51.5	S 2 30.7	61.3	Acruar	173 01.1	S 63 14.2	
04	57 34.2	241 29.0	N 1 41.7	215 14.5	S 8 58.2	319 01.9	N 23 26.9	337 44.3	N 22 24.0	70 16.5	S 7 49.8	60 20.4	S 2 12.4	61.3	Adhara	255 06.3	S 29 00.0	
05	72 36.7	256 29.2	N 1 40.7	230 14.1	S 8 59.4	334 02.8	N 23 26.9	352 46.5	N 22 24.0	85 19.1	S 7 49.9	74 49.4	S 1 54.1	61.4	Aldebaran	290 39.9	N 16 33.6	
06	87 39.1	271 29.4	N 1 39.7	245 13.7	S 9 00.7	349 03.7	N 23 26.9	7 48.8	N 22 24.0	100 21.8	S 7 49.9	89 18.4	S 1 35.8	61.4				
07	102 41.6	286 29.6	N 1 38.8	260 13.4	S 9 01.9	4 04.7	N 23 26.8	22 51.1	N 22 24.0	115 24.4	S 7 50.0	103 47.4	S 1 17.6	61.4	Alioth	166 13.7	N 55 49.8	
08	117 44.1	301 29.9	N 1 37.8	275 13.0	S 9 03.1	19 05.6	N 23 26.8	37 53.4	N 22 24.0	130 27.0	S 7 50.1	118 16.3	S 0 59.2	61.4	Alkaid	152 52.5	N 49 11.6	
09	132 46.5	316 30.1	N 1 36.8	290 12.6	S 9 04.3	34 06.5	N 23 26.8	52 55.7	N 22 24.0	145 29.7	S 7 50.1	132 45.3	S 0 40.9	61.4	Alnair	27 32.8	S 46 50.5	
10	147 49.0	331 30.3	N 1 35.9	305 12.3	S 9 05.6	49 07.4	N 23 26.7	67 58.0	N 22 24.0	160 32.3	S 7 50.2	147 14.3	S 0 22.6	61.4	Alnilam	275 38.1	S 1 11.0	
11	162 51.5	346 30.5	N 1 34.9	320 11.9	S 9 06.8	64 08.3	N 23 26.7	83 00.2	N 22 24.0	175 34.9	S 7 50.3	161 43.3	S 0 04.3	61.4	Alphard	217 48.3	S 8 45.8	
12	177 53.9	1 30.7	N 1 33.9	335 11.5	S 9 08.0	79 09.3	N 23 26.7	98 02.5	N 22 24.1	190 37.6	S 7 50.4	176 12.3	N 0 14.0	61.4				
13	192 56.4	16 31.0	N 1 32.9	350 11.2	S 9 09.2	94 10.2	N 23 26.6	113 04.8	N 22 24.1	205 40.2	S 7 50.4	190 41.3	N 0 32.3	61.4	Alphecca	126 04.1	N 26 38.1	
14	207 58.9	31 31.2	N 1 32.0	5 10.8	S 9 10.5	109 11.1	N 23 26.6	128 07.1	N 22 24.1	220 42.9	S 7 50.5	205 10.3	N 0 50.7	61.4	Alpheratz	357 34.7	N 29 13.7	
15	223 01.3	46 31.4	N 1 31.0	20 10.4	S 9 11.7	124 12.0	N 23 26.6	143 09.4	N 22 24.1	235 45.5	S 7 50.6	219 39.3	N 1 09.0	61.4	Altair	62 00.0	N 8 56.1	
16	238 03.8	61 31.6	N 1 30.0	35 10.1	S 9 12.9	139 12.9	N 23 26.5	158 11.1	N 22 24.1	250 48.1	S 7 50.6	234 08.2	N 1 27.3	61.4	Ankaa	353 07.0	S 42 10.2	
17	253 06.3	76 31.9	N 1 29.1	50 09.7	S 9 14.1	154 13.9	N 23 26.5	173 13.9	N 22 24.1	265 50.8	S 7 50.7	248 37.2	N 1 45.6	61.4	Antares	112 16.2	S 26 29.2	
18	268 08.7	91 32.1	N 1 28.1	65 09.3	S 9 15.4	169 14.8	N 23 26.5	188 16.2	N 22 24.1	280 53.4	S 7 50.8	263 06.2	N 2 03.9	61.4				
19	283 11.2	106 32.3	N 1 27.1	80 09.0	S 9 16.6	184 15.7	N 23 26.4	203 18.5	N 22 24.1	295 56.0	S 7 50.9	277 35.1	N 2 22.1	61.4	Arcturus	145 48.4	N 19 03.4	
20	298 13.6	121 32.5	N 1 26.2	95 08.6	S 9 17.8	199 16.6	N 23 26.4	218 20.8	N 22 24.1	310 58.7	S 7 50.9	292 04.1	N 2 40.4	61.4	Atria	107 10.7	S 69 04.6	
21	313 16.1	136 32.8	N 1 25.2	110 08.2	S 9 19.0	214 17.5	N 23 26.4	233 23.1	N 22 24.1	326 01.3	S 7 51.0	306 33.0	N 2 58.6	61.4	Avior	234 15.4	S 59 35.0	
22	328 18.6	151 33.0	N 1 24.2	125 07.9	S 9 20.3	229 18.5	N 23 26.3	248 25.4	N 22 24.2	341 04.0	S 7 51.1	321 01.9	N 3 16.9	61.4	Bellatrix	278 23.2	N 6 22.5	
23	343 21.0	166 33.2	N 1 23.3	140 07.5	S 9 21.5	244 19.4	N 23 26.3	263 27.7	N 22 24.2	356 06.6	S 7 51.2	335 30.8	N 3 35.0	61.3	Betelgeuse	270 52.5	N 7 24.8	
19 00	358 23.5	181 33.4	N 1 22.3	155 07.1	S 9 22.7	259 20.3	N 23 26.3	278 30.0	N 22 24.2	11 09.2	S 7 51.2	349 59.7	N 3 53.2	61.3	Canopus	263 52.7	S 52 42.1	
01	13 26.0	196 33.7	N 1 21.3	170 06.8	S 9 23.9	274 21.2	N 23 26.2	293 32.2	N 22 24.2	26 11.9	S 7 51.3	4 28.6	N 4 11.4	61.3	Capella	280 22.4	N 46 01.2	
02	28 28.4	211 33.9	N 1 20.4	185 06.4	S 9 25.1	289 22.2	N 23 26.2	308 34.5	N 22 24.2	41 14.5	S 7 51.4	18 57.5	N 4 29.5	61.3	Castor	245 57.7	N 31 50.1	
03	43 30.9	226 34.1	N 1 19.4	200 06.0	S 9 26.4	304 23.1	N 23 26.2	323 36.8	N 22 24.2	56 17.1	S 7 51.4	33 26.3	N 4 47.6	61.3	Deneb	49 25.6	N 45 22.3	
04	58 33.4	241 34.3	N 1 18.4	215 05.6	S 9 27.6	319 24.0	N 23 26.1	338 39.1	N 22 24.2	71 19.8	S 7 51.5	47 55.1	N 5 05.6	61.3	Denebola	182 25.5	N 14 26.2	
05	73 35.8	256 34.6	N 1 17.4	230 05.3	S 9 28.8	334 24.9	N 23 26.1	353 41.4	N 22 24.2	86 22.4	S 7 51.6	62 23.9	N 5 23.6	61.3				
06	88 38.3	271 34.8	N 1 16.5	245 04.9	S 9 30.0	349 25.9	N 23 26.0	8 43.7	N 22 24.2	101 25.0	S 7 51.7	76 52.7	N 5 41.6	61.3	Diphda	348 47.3	S 17 50.9	
07	103 40.8	286 35.0	N 1 15.5	260 04.5	S 9 31.2	4 26.8	N 23 26.0	23 46.0	N 22 24.3	116 27.7	S 7 51.7	91 21.4	N 5 59.6	61.3	Dubhe	193 42.0	N 61 37.1	
08	118 43.2	301 35.2	N 1 14.5	275 04.2	S 9 32.4	19 27.7	N 23 26.0	38 48.3	N 22 24.3	131 30.3	S 7 51.8	105 50.2	N 6 17.5	61.3	Elnath	278 02.3	N 28 37.7	
09	133 45.7	316 35.5	N 1 13.6	290 03.8	S 9 33.7	34 28.6	N 23 25.9	53 50.6	N 22 24.3	146 33.0	S 7 51.9	120 18.9	N 6 35.3	61.3	Etamin	90 42.2	N 51 29.4	
10	148 48.1	331 35.7	N 1 12.6	305 03.4	S 9 34.9	49 29.6	N 23 25.9	68 52.8	N 22 24.3	161 35.6	S 7 51.9	134 47.5	N 6 53.1	61.2	Enif	33 38.8	N 9 59.4	
11	163 50.6	346 35.9	N 1 11.6	320 03.0	S 9 36.1	64 30.5	N 23 25.9	83 55.1	N 22 24.3	176 38.2	S 7 52.0	149 16.2	N 7 10.9	61.2				
12	178 53.1	1 36.1	N 1 10.7	335 02.7	S 9 37.3	79 31.4	N 23 25.8	98 57.4	N 22 24.3	191 40.9	S 7 52.1	163 44.8	N 7 28.6	61.2	Fomalhaut	15 14.4	S 29 29.4	
13	193 55.5	16 36.3	N 1 09.7	350 02.3	S 9 38.5	94 32.3	N 23 25.8	113 59.7	N 22 24.3	206 43.5	S 7 52.2	178 13.4	N 7 46.3	61.2	Gacrux	171 52.6	S 57 15.1	
14	208 58.0	31 36.6	N 1 08.7	5 01.9	S 9 39.7	109 33.3	N 23 25.7	129 02.0	N 22 24.3	221 46.1	S 7 52.2	192 41.9	N 8 03.9	61.2	Gienah	175 44.2	S 17 40.6	
15	224 00.5	46 36.8	N 1 07.7	20 01.5	S 9 41.0	124 34.2	N 23 25.7	144 04.3	N 22 24.3	236 48.8	S 7 52.3	207 10.5	N 8 21.5	61.2	Hadar	148 36.9	S 60 29.7	
16	239 02.9	61 37.0	N 1 06.8	35 01.2	S 9 42.2	139 35.1	N 23 25.7	159 06.6	N 22 24.3	251 51.4	S 7 52.4	221 39.0	N 8 39.0	61.2	Hamal	327 51.3	N 23 34.8	
17	254 05.4	76 37.2	N 1 05.8	50 00.8	S 9 43.4	154 36.0	N 23 25.6	174 08.9	N 22 24.3	266 54.0	S 7 52.5	236 07.4	N 8 56.4	61.2				
18	269 07.9	91 37.5	N 1 04.8	65 00.4	S 9 44.6	169 37.0	N 23 25.6	189 11.2	N 22 24.4	281 56.7	S 7 52.5	250 35.8	N 9 13.8	61.1	Kaus aust.	83 32.7	S 34 22.4	
19	284 10.3	106 37.7	N 1 03.9	80 00.0	S 9 45.8	184 37.9	N 23 25.6	204 13.5	N 22 24.4	296 59.3	S 7 52.6	265 04.2	N 9 31.1	61.1	Kochab	137 20.3	N 74 03.5	
20	299 12.8	121 37.9	N 1 02.9	94 59.7	S 9 47.0	199 38.8	N 23 25.5	219 15.8	N 22 24.4	312 01.9	S 7 52.7	279 32.6	N 9 48.4	61.1	Markab	13 29.9	N 15 20.4	
21	314 15.2	136 38.1	N 1 01.9	109 59.3	S 9 48.3	214 39.8	N 23 25.5	234 18.1	N 22 24.4	327 04.6	S 7 52.7	294 00.9	N 10 05.5	61.1	Menkar	314 06.3	N 4 11.3	
22	329 17.7	151 38.4	N 1 01.0	124 58.9	S 9 49.5	229 40.7	N 23 25.4	249 20.4	N 22 24.4	342 07.2	S 7 52.8	308 29.2	N 10 22.7	61.1	Menkent	147 58.2	S 36 29.5	
23	344 20.2	166 38.6	N 1 00.0	139 58.5	S 9 50.7	244 41.6	N 23 25.4	264 22.7	N 22 24.4	357 09.9	S 7 52.9	322 57.4	N 10 39.7	61.1				
20 00	359 22.6	181 38.8	N 0 59.0	154 58.2	S 9 51.9	259 42.6	N 23 25.4	279 25.0	N 22 24.4	12 12.5	S 7 53.0	337 25.6	N 10 56.7	61.0	Miaplacidus	221 39.3	S 69 48.9	
01	14 25.1	196 39.0	N 0 58.0	169 57.8	S 9 53.1	274 43.5	N 23 25.3	294 27.3	N 22 24.4	27 15.1	S 7 53.0	351 53.7	N 11 13.6	61.0	Mirfak	308 28.5	N 49 56.8	
02	29 27.6	211 39.2	N 0 57.1	1														

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	SETTEMBRE	10
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
21 00	0 21.8	181 44.1	N 0 35.7	154 49.0	S 10 20.9	260 05.0	N 23 24.3	280 20.2	N 22 24.6	13 15.7	S 7 54.7	324 27.7	N 17 17.1	60.5	NOME	360 - AR	Dec.	
01	15 24.2	196 44.4	N 0 34.7	169 48.6	S 10 22.1	275 06.0	N 23 24.3	295 22.5	N 22 24.6	28 18.4	S 7 54.7	338 54.6	N 17 31.6	60.4	Acamar	315 11.7	S 40 12.0	
02	30 26.7	211 44.6	N 0 33.8	184 48.2	S 10 23.3	290 06.9	N 23 24.2	310 24.8	N 22 24.7	43 21.0	S 7 54.8	353 21.5	N 17 46.0	60.4	Achernar	335 19.9	S 57 06.4	
03	45 29.2	226 44.8	N 0 32.8	199 47.9	S 10 24.5	305 07.9	N 23 24.2	325 27.1	N 22 24.7	58 23.6	S 7 54.9	7 48.3	N 18 00.3	60.4	Acruz	173 01.1	S 63 14.2	
04	60 31.6	241 45.0	N 0 31.8	214 47.5	S 10 25.7	320 08.8	N 23 24.1	340 29.4	N 22 24.7	73 26.3	S 7 54.9	22 15.0	N 18 14.4	60.3	Adhara	255 06.3	S 29 00.0	
05	75 34.1	256 45.3	N 0 30.9	229 47.1	S 10 26.9	335 09.7	N 23 24.1	355 31.7	N 22 24.7	88 28.9	S 7 55.0	36 41.7	N 18 28.5	60.3	Aldebaran	290 39.9	N 16 33.6	
06	90 36.6	271 45.5	N 0 29.9	244 46.7	S 10 28.1	350 10.7	N 23 24.0	10 34.0	N 22 24.7	103 31.5	S 7 55.1	51 08.3	N 18 42.4	60.3				
07	105 39.0	286 45.7	N 0 28.9	259 46.3	S 10 29.3	5 11.6	N 23 24.0	25 36.3	N 22 24.7	118 34.2	S 7 55.2	65 34.9	N 18 56.2	60.2	Alioth	166 13.7	N 55 49.7	
08	120 41.5	301 45.9	N 0 27.9	274 45.9	S 10 30.5	20 12.6	N 23 24.0	40 38.6	N 22 24.7	133 36.8	S 7 55.2	80 01.4	N 19 09.8	60.2	Alkaid	152 52.6	N 49 11.6	
09	135 44.0	316 46.1	N 0 27.0	289 45.5	S 10 31.7	35 13.5	N 23 23.9	55 40.9	N 22 24.7	148 39.4	S 7 55.3	94 27.9	N 19 23.3	60.2	Alnair	27 32.8	S 46 50.5	
10	150 46.4	331 46.4	N 0 26.0	304 45.2	S 10 32.9	50 14.5	N 23 23.9	70 43.2	N 22 24.7	163 42.1	S 7 55.4	108 54.3	N 19 36.7	60.1	Alnilam	275 38.1	S 1 11.0	
11	165 48.9	346 46.6	N 0 25.0	319 44.8	S 10 34.1	65 15.4	N 23 23.8	85 45.5	N 22 24.7	178 44.7	S 7 55.4	123 20.6	N 19 50.0	60.1	Alphard	217 48.3	S 8 45.8	
12	180 51.3	1 46.8	N 0 24.1	334 44.4	S 10 35.3	80 16.3	N 23 23.8	100 47.8	N 22 24.7	193 47.3	S 7 55.5	137 46.9	N 20 03.1	60.1				
13	195 53.8	16 47.0	N 0 23.1	349 44.0	S 10 36.5	95 17.3	N 23 23.7	115 50.1	N 22 24.8	208 50.0	S 7 55.6	152 13.1	N 20 16.1	60.0	Alphecca	126 04.1	N 26 38.1	
14	210 56.3	31 47.3	N 0 22.1	4 43.6	S 10 37.7	110 18.2	N 23 23.7	130 52.4	N 22 24.8	223 52.6	S 7 55.7	166 39.3	N 20 28.9	60.0	Alpheratz	357 34.7	N 29 13.7	
15	225 58.7	46 47.5	N 0 21.1	19 43.2	S 10 38.9	125 19.2	N 23 23.6	145 54.7	N 22 24.8	238 55.2	S 7 55.7	181 05.4	N 20 41.6	60.0	Altair	62 00.0	N 8 56.1	
16	241 01.2	61 47.7	N 0 20.2	34 42.8	S 10 40.1	140 20.1	N 23 23.6	160 57.1	N 22 24.8	253 57.9	S 7 55.8	195 31.4	N 20 54.1	59.9	Ankaa	353 07.0	S 42 10.2	
17	256 03.7	76 47.9	N 0 19.2	49 42.4	S 10 41.3	155 21.1	N 23 23.5	175 59.4	N 22 24.8	269 00.5	S 7 55.9	209 57.4	N 21 06.6	59.9	Antares	112 16.2	S 26 29.2	
18	271 06.1	91 48.1	N 0 18.2	64 42.0	S 10 42.5	170 22.0	N 23 23.5	191 01.7	N 22 24.8	284 03.1	S 7 55.9	224 23.3	N 21 18.8	59.9				
19	286 08.6	106 48.4	N 0 17.2	79 41.7	S 10 43.7	185 23.0	N 23 23.4	206 04.0	N 22 24.8	299 05.8	S 7 56.0	238 49.2	N 21 30.9	59.8	Arcturus	145 48.4	N 19 03.4	
20	301 11.1	121 48.6	N 0 16.3	94 41.3	S 10 44.9	200 23.9	N 23 23.4	221 06.3	N 22 24.8	314 08.4	S 7 56.1	253 15.0	N 21 42.9	59.8	Atria	107 10.7	S 69 04.5	
21	316 13.5	136 48.8	N 0 15.3	109 40.9	S 10 46.1	215 24.9	N 23 23.3	236 08.6	N 22 24.8	329 11.1	S 7 56.1	267 40.8	N 21 54.7	59.8	Avior	234 15.4	S 59 35.0	
22	331 16.0	151 49.0	N 0 14.3	124 40.5	S 10 47.3	230 25.8	N 23 23.3	251 10.9	N 22 24.8	344 13.7	S 7 56.2	282 06.5	N 22 06.4	59.7	Bellatrix	278 23.2	N 6 22.5	
23	346 18.5	166 49.2	N 0 13.4	139 40.1	S 10 48.4	245 26.8	N 23 23.2	266 13.2	N 22 24.8	359 16.3	S 7 56.3	296 32.2	N 22 17.9	59.7	Betelgeuse	270 52.5	N 7 24.8	
22 00	1 20.9	181 49.5	N 0 12.4	154 39.7	S 10 49.6	260 27.7	N 23 23.2	281 15.5	N 22 24.9	14 19.0	S 7 56.4	310 57.8	N 22 29.3	59.7	Canopus	263 52.7	S 52 42.1	
01	16 23.4	196 49.7	N 0 11.4	169 39.3	S 10 50.8	275 28.7	N 23 23.1	296 17.9	N 22 24.9	29 21.6	S 7 56.4	325 23.3	N 22 40.5	59.6	Capella	280 22.3	N 46 01.2	
02	31 25.8	211 49.9	N 0 10.4	184 38.9	S 10 52.0	290 29.6	N 23 23.1	311 20.2	N 22 24.9	44 24.2	S 7 56.5	339 48.8	N 22 51.6	59.6	Castor	245 57.6	N 31 50.1	
03	46 28.3	226 50.1	N 0 09.5	199 38.5	S 10 53.2	305 30.6	N 23 23.0	326 22.5	N 22 24.9	59 26.9	S 7 56.6	354 14.2	N 23 02.5	59.6	Deneb	49 25.6	N 45 22.3	
04	61 30.8	241 50.3	N 0 08.5	214 38.1	S 10 54.4	320 31.5	N 23 23.0	341 24.8	N 22 24.9	74 29.5	S 7 56.6	8 39.6	N 23 13.2	59.5	Denebola	182 25.5	N 44 26.2	
05	76 33.2	256 50.6	N 0 07.5	229 37.7	S 10 55.6	335 32.5	N 23 22.9	356 27.1	N 22 24.9	89 32.1	S 7 56.7	23 04.9	N 23 23.8	59.5				
06	91 35.7	271 50.8	N 0 06.6	244 37.3	S 10 56.8	350 33.4	N 23 22.9	11 29.4	N 22 24.9	104 34.8	S 7 56.8	37 30.2	N 23 34.2	59.5	Diphda	348 47.3	S 17 50.9	
07	106 38.2	286 51.0	N 0 05.6	259 36.9	S 10 58.0	5 34.4	N 23 22.8	26 31.7	N 22 24.9	119 37.4	S 7 56.8	51 55.4	N 23 44.5	59.4	Dubhe	193 41.9	N 61 37.1	
08	121 40.6	301 51.2	N 0 04.6	274 36.5	S 10 59.2	20 35.3	N 23 22.8	41 34.1	N 22 24.9	134 40.0	S 7 56.9	66 20.6	N 23 54.6	59.4	Elnath	278 02.3	N 28 37.7	
09	136 43.1	316 51.5	N 0 03.6	289 36.1	S 11 00.4	35 36.3	N 23 22.7	56 36.4	N 22 24.9	149 42.7	S 7 57.0	80 45.8	N 24 04.5	59.3	Etamin	90 42.2	N 51 29.4	
10	151 45.6	331 51.7	N 0 02.7	304 35.8	S 11 01.6	50 37.2	N 23 22.7	71 38.7	N 22 24.9	164 45.3	S 7 57.1	95 10.8	N 24 14.3	59.3	Enif	33 38.8	N 9 59.4	
11	166 48.0	346 51.9	N 0 01.7	319 35.4	S 11 02.7	65 38.2	N 23 22.6	86 41.0	N 22 24.9	179 47.9	S 7 57.1	109 35.9	N 24 23.9	59.3				
12	181 50.5	1 52.1	N 0 00.7	334 35.0	S 11 03.9	80 39.1	N 23 22.6	101 43.3	N 22 24.9	194 50.6	S 7 57.2	124 00.9	N 24 33.3	59.2	Fomalhaut	15 14.4	S 29 29.4	
13	196 52.9	16 52.3	N 0 00.3	349 34.6	S 11 05.1	95 40.1	N 23 22.5	116 45.6	N 22 25.0	209 53.2	S 7 57.3	138 25.8	N 24 42.6	59.2	Gacrux	171 52.6	S 57 15.1	
14	211 55.4	31 52.6	S 0 01.2	4 34.2	S 11 06.3	110 41.0	N 23 22.5	131 47.9	N 22 25.0	224 55.8	S 7 57.3	152 50.7	N 24 51.7	59.2	Gienah	175 44.2	S 17 40.6	
15	226 57.9	46 52.8	S 0 02.2	19 33.8	S 11 07.5	125 42.0	N 23 22.4	146 50.3	N 22 25.0	239 58.4	S 7 57.4	167 15.6	N 25 00.7	59.1	Hadar	148 36.9	S 60 29.6	
16	242 00.3	61 53.0	S 0 03.2	34 33.4	S 11 08.7	140 42.9	N 23 22.4	161 52.6	N 22 25.0	255 01.1	S 7 57.5	181 40.4	N 25 09.4	59.1	Hamal	327 51.3	N 23 34.8	
17	257 02.8	76 53.2	S 0 04.1	49 33.0	S 11 09.9	155 43.9	N 23 22.3	176 54.9	N 22 25.0	270 03.7	S 7 57.5	196 05.2	N 25 18.1	59.1				
18	272 05.3	91 53.4	S 0 05.1	64 32.6	S 11 11.1	170 44.9	N 23 22.3	191 57.2	N 22 25.0	285 06.3	S 7 57.6	210 30.0	N 25 26.5	59.0	Kaus aust.	83 32.7	S 34 22.4	
19	287 07.7	106 53.7	S 0 06.1	79 32.2	S 11 12.2	185 45.8	N 23 22.2	206 59.5	N 22 25.0	300 09.0	S 7 57.7	224 54.7	N 25 34.7	59.0	Kochab	137 20.3	N 74 03.5	
20	302 10.2	121 53.9	S 0 07.1	94 31.8	S 11 13.4	200 46.8	N 23 22.1	222 01.9	N 22 25.0	315 11.6	S 7 57.8	239 19.3	N 25 42.8	58.9	Markab	13 29.9	N 15 20.4	
21	317 12.7	136 54.1	S 0 08.0	109 31.4	S 11 14.6	215 47.7	N 23 22.1	237 04.2	N 22 25.0	330 14.2	S 7 57.8	253 44.0	N 25 50.7	58.9	Menkar	314 06.3	N 4 11.3	
22	332 15.1	151 54.3	S 0 09.0	124 31.0	S 11 15.8	230 48.7	N 23 22.0	252 06.5	N 22 25.0	345 16.9	S 7 57.9	268 08.6	N 25 58.5	58.9	Menkent	147 58.2	S 36 29.5	
23	347 17.6	166 54.5	S 0 10.0	139 30.6	S 11 17.0	245 49.6	N 23 22.0	267 08.8	N 22 25.0	0 19.5	S 7 58.0	282 33.2	N 26 06.0	58.8				
23 00	2 20.1	181 54.8	S 0 11.0	154 30.2	S 11 18.2	260 50.6	N 23 21.9	282 11.1	N 22 25.0	15 22.1	S 7 58.0	296 57.7	N 26 13.4	58.8	Miaplacidus	221 39.2	S 69 48.8	
01	17 22.5	196 55.0	S 0 11.9	169 29.8	S 11 19.4	275 51.6	N 23 21.9	297 13.5	N 22 25.1	30 24.8	S 7 58.1	311 22.2	N 26 20.6	58.7	Mirfak</			

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	SETTEMBRE	13
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
24 00	3 19.2	182 00.0	S 0 34.3	154 20.5	S 11 46.5	261 13.7	N 23 20.6	283 06.9	N 22 25.2	16 25.3	S 7 59.7	282 42.1	N 28 17.2	57.9	NOME	360 - AR	Dec.	
01	18 21.7	197 00.2	S 0 35.3	169 20.0	S 11 47.6	276 14.7	N 23 20.5	298 09.3	N 22 25.2	31 27.9	S 7 59.8	297 06.4	N 28 20.1	57.8	Acamar	315 11.7	S 40 12.0	
02	33 24.1	212 00.4	S 0 36.3	184 19.6	S 11 48.8	291 15.7	N 23 20.4	313 11.6	N 22 25.2	46 30.6	S 7 59.8	311 30.8	N 28 22.8	57.8	Achernar	335 19.9	S 57 06.4	
03	48 26.6	227 00.7	S 0 37.2	199 19.2	S 11 50.0	306 16.6	N 23 20.4	328 13.9	N 22 25.3	61 33.2	S 7 59.9	325 55.2	N 28 25.4	57.8	AcruX	173 01.1	S 63 14.2	
04	63 29.1	242 00.9	S 0 38.2	214 18.8	S 11 51.1	321 17.6	N 23 20.3	343 16.2	N 22 25.3	76 35.8	S 8 00.0	340 19.6	N 28 27.7	57.7	Adhara	255 06.2	S 29 00.0	
05	78 31.5	257 01.1	S 0 39.2	229 18.4	S 11 52.3	336 18.6	N 23 20.3	358 18.6	N 22 25.3	91 38.5	S 8 00.0	354 44.0	N 28 29.9	57.7	Aldebaran	290 39.9	N 16 33.6	
06	93 34.0	272 01.3	S 0 40.2	244 18.0	S 11 53.5	351 19.5	N 23 20.2	13 20.9	N 22 25.3	106 41.1	S 8 00.1	9 08.5	N 28 31.9	57.7				
07	108 36.4	287 01.5	S 0 41.1	259 17.6	S 11 54.7	6 20.5	N 23 20.1	28 23.2	N 22 25.3	121 43.7	S 8 00.2	23 32.9	N 28 33.8	57.6	Alioth	166 13.7	N 55 49.7	
08	123 38.9	302 01.7	S 0 42.1	274 17.2	S 11 55.8	21 21.5	N 23 20.1	43 25.6	N 22 25.3	136 46.3	S 8 00.2	37 57.4	N 28 35.4	57.6	Alkaid	152 52.6	N 49 11.6	
09	138 41.4	317 02.0	S 0 43.1	289 16.8	S 11 57.0	36 22.4	N 23 20.0	58 27.9	N 22 25.3	151 49.0	S 8 00.3	52 22.0	N 28 36.9	57.5	Alnair	27 32.8	S 46 50.5	
10	153 43.8	332 02.2	S 0 44.1	304 16.3	S 11 58.2	51 23.4	N 23 20.0	73 30.2	N 22 25.3	166 51.6	S 8 00.4	66 46.5	N 28 38.2	57.5	Alnilam	275 38.0	S 1 11.0	
11	168 46.3	347 02.4	S 0 45.0	319 15.9	S 11 59.3	66 24.4	N 23 19.9	88 32.6	N 22 25.3	181 54.2	S 8 00.4	81 11.1	N 28 39.3	57.5	Alphard	217 48.3	S 8 45.8	
12	183 48.8	2 02.6	S 0 46.0	334 15.5	S 12 00.5	81 25.4	N 23 19.8	103 34.9	N 22 25.3	196 56.9	S 8 00.5	95 35.8	N 28 40.2	57.4				
13	198 51.2	17 02.8	S 0 47.0	349 15.1	S 12 01.7	96 26.3	N 23 19.8	118 37.2	N 22 25.3	211 59.5	S 8 00.6	110 00.4	N 28 41.0	57.4	Alphecca	126 04.1	N 26 38.1	
14	213 53.7	32 03.0	S 0 47.9	4 14.7	S 12 02.8	111 27.3	N 23 19.7	133 39.6	N 22 25.3	227 02.1	S 8 00.6	124 25.1	N 28 41.6	57.4	Alpheratz	357 34.7	N 29 13.7	
15	228 56.2	47 03.3	S 0 48.9	19 14.3	S 12 04.0	126 28.3	N 23 19.7	148 41.9	N 22 25.3	242 04.8	S 8 00.7	138 49.9	N 28 42.0	57.3	Altair	62 00.0	N 8 56.1	
16	243 58.6	62 03.5	S 0 49.9	34 13.9	S 12 05.2	141 29.3	N 23 19.6	163 44.6	N 22 25.3	257 07.4	S 8 00.8	153 14.7	N 28 42.2	57.3	Ankaa	353 07.0	S 42 10.2	
17	259 01.1	77 03.7	S 0 50.9	49 13.4	S 12 06.3	156 30.2	N 23 19.5	178 46.2	N 22 25.3	272 10.0	S 8 00.9	167 39.5	N 28 42.3	57.3	Antares	112 16.3	S 26 29.2	
18	274 03.6	92 03.9	S 0 51.8	64 13.0	S 12 07.5	171 31.2	N 23 19.5	193 48.9	N 22 25.4	287 12.6	S 8 00.9	182 04.4	N 28 42.2	57.2				
19	289 06.0	107 04.1	S 0 52.8	79 12.6	S 12 08.7	186 32.2	N 23 19.4	208 51.2	N 22 25.4	302 15.3	S 8 01.0	196 29.4	N 28 41.9	57.2	Arcturus	145 48.4	N 19 03.4	
20	304 08.5	122 04.3	S 0 53.8	94 12.2	S 12 09.8	201 33.2	N 23 19.3	223 53.6	N 22 25.4	317 17.9	S 8 01.1	210 54.3	N 28 41.4	57.2	Atria	107 10.8	S 69 04.5	
21	319 10.9	137 04.6	S 0 54.8	109 11.8	S 12 11.0	216 34.1	N 23 19.3	238 55.9	N 22 25.4	332 20.5	S 8 01.1	225 19.4	N 28 40.8	57.1	Avior	234 15.3	S 59 35.0	
22	334 13.4	152 04.8	S 0 55.7	124 11.4	S 12 12.2	231 35.1	N 23 19.2	253 58.2	N 22 25.4	347 23.2	S 8 01.2	239 44.5	N 28 40.0	57.1	Bellatrix	278 23.2	N 6 22.5	
23	349 15.9	167 05.0	S 0 56.7	139 10.9	S 12 13.3	246 36.1	N 23 19.2	269 00.6	N 22 25.4	2 25.8	S 8 01.3	254 09.6	N 28 39.1	57.1	Betelgeuse	270 52.4	N 7 24.8	
25 00	4 18.3	182 05.2	S 0 57.7	154 10.5	S 12 14.5	261 37.1	N 23 19.1	284 02.9	N 22 25.4	17 28.4	S 8 01.3	268 34.8	N 28 37.9	57.0	Canopus	263 52.7	S 52 42.1	
01	19 20.8	197 05.4	S 0 58.7	169 10.1	S 12 15.6	276 38.0	N 23 19.0	299 05.3	N 22 25.4	32 31.1	S 8 01.4	283 00.1	N 28 36.6	57.0	Capella	280 22.3	N 46 01.2	
02	34 23.3	212 05.6	S 0 59.6	184 09.7	S 12 16.8	291 39.0	N 23 19.0	314 07.6	N 22 25.4	47 33.7	S 8 01.5	297 25.4	N 28 35.2	56.9	Castor	245 57.6	N 31 50.1	
03	49 25.7	227 05.9	S 1 00.6	199 09.3	S 12 18.0	306 40.0	N 23 18.9	329 09.9	N 22 25.4	62 36.3	S 8 01.5	311 50.8	N 28 33.5	56.9	Deneb	49 25.7	N 45 22.3	
04	64 28.2	242 06.1	S 1 01.6	214 08.8	S 12 19.1	321 41.0	N 23 18.8	344 12.3	N 22 25.4	77 38.9	S 8 01.6	326 16.2	N 28 31.7	56.9	Denebola	182 25.5	N 14 26.2	
05	79 30.7	257 06.3	S 1 02.5	229 08.4	S 12 20.3	336 42.0	N 23 18.8	359 14.6	N 22 25.4	92 41.6	S 8 01.7	340 41.8	N 28 29.8	56.8				
06	94 33.1	272 06.5	S 1 03.5	244 08.0	S 12 21.4	351 42.9	N 23 18.7	14 17.0	N 22 25.4	107 44.2	S 8 01.7	355 07.3	N 28 27.6	56.8	Diphda	348 47.2	S 17 50.9	
07	109 35.6	287 06.7	S 1 04.5	259 07.6	S 12 22.6	6 43.9	N 23 18.6	29 19.3	N 22 25.4	122 46.8	S 8 01.8	9 33.0	N 28 25.3	56.8	Dubhe	193 41.9	N 61 37.1	
08	124 38.0	302 06.9	S 1 05.5	274 07.2	S 12 23.8	21 44.9	N 23 18.6	44 21.6	N 22 25.5	137 49.5	S 8 01.9	23 58.7	N 28 22.9	56.7	Elnath	278 02.2	N 28 37.7	
09	139 40.5	317 07.2	S 1 06.4	289 06.7	S 12 24.9	36 45.9	N 23 18.5	59 24.0	N 22 25.5	152 52.1	S 8 01.9	38 24.5	N 28 20.3	56.7	Etamin	90 42.2	N 51 29.4	
10	154 43.0	332 07.4	S 1 07.4	304 06.3	S 12 26.1	51 46.9	N 23 18.4	74 26.3	N 22 25.5	167 54.7	S 8 02.0	52 50.4	N 28 17.5	56.7	Enif	33 38.8	N 9 59.4	
11	169 45.4	347 07.6	S 1 08.4	319 05.9	S 12 27.2	66 47.8	N 23 18.4	89 28.7	N 22 25.5	182 57.4	S 8 02.1	67 16.3	N 28 14.5	56.6				
12	184 47.9	2 07.8	S 1 09.4	334 05.5	S 12 28.4	81 48.8	N 23 18.3	104 31.0	N 22 25.5	198 00.0	S 8 02.1	81 42.3	N 28 11.5	56.6	Fomalhaut	15 14.4	S 29 29.4	
13	199 50.4	17 08.0	S 1 10.3	349 05.0	S 12 29.5	96 49.8	N 23 18.3	119 33.0	N 22 25.5	213 02.6	S 8 02.2	96 08.4	N 28 08.2	56.6	Gacrux	171 52.6	S 57 15.1	
14	214 52.8	32 08.2	S 1 11.3	4 04.6	S 12 30.7	111 50.8	N 23 18.2	134 35.7	N 22 25.5	228 05.2	S 8 02.3	110 34.6	N 28 04.8	56.6	Gienah	175 44.2	S 17 40.6	
15	229 55.3	47 08.4	S 1 12.3	19 04.2	S 12 31.9	126 51.8	N 23 18.1	149 38.0	N 22 25.5	243 07.9	S 8 02.3	125 00.8	N 28 01.2	56.5	Hadar	148 36.9	S 60 29.6	
16	244 57.8	62 08.7	S 1 13.3	34 03.8	S 12 33.0	141 52.8	N 23 18.1	164 40.4	N 22 25.5	258 10.5	S 8 02.4	139 27.2	N 27 57.5	56.5	Hamal	327 51.3	N 23 34.8	
17	260 00.2	77 08.9	S 1 14.2	49 03.3	S 12 34.2	156 53.7	N 23 18.0	179 42.7	N 22 25.5	273 13.1	S 8 02.5	153 53.6	N 27 53.7	56.5				
18	275 02.7	92 09.1	S 1 15.2	64 02.9	S 12 35.3	171 54.7	N 23 17.9	194 45.1	N 22 25.5	288 15.8	S 8 02.5	168 20.1	N 27 49.6	56.4	Kaus aust.	83 32.8	S 34 22.4	
19	290 05.2	107 09.3	S 1 16.2	79 02.5	S 12 36.5	186 55.7	N 23 17.9	209 47.4	N 22 25.5	303 18.4	S 8 02.6	182 46.7	N 27 45.5	56.4	Kochab	137 20.4	N 74 03.4	
20	305 07.6	122 09.5	S 1 17.2	94 02.1	S 12 37.6	201 56.7	N 23 17.8	224 49.7	N 22 25.5	318 21.0	S 8 02.7	197 13.3	N 27 41.1	56.4	Markab	13 29.8	N 15 20.4	
21	320 10.1	137 09.7	S 1 18.1	109 01.6	S 12 38.8	216 57.7	N 23 17.7	239 52.1	N 22 25.5	333 23.6	S 8 02.7	211 40.1	N 27 36.7	56.3	Menkar	314 06.3	N 4 11.3	
22	335 12.5	152 09.9	S 1 19.1	124 01.2	S 12 39.9	231 58.7	N 23 17.7	254 54.4	N 22 25.5	348 26.3	S 8 02.8	226 06.9	N 27 32.1	56.3	Menkent	147 58.2	S 36 29.5	
23	350 15.0	167 10.2	S 1 20.1	139 00.8	S 12 41.1	246 59.7	N 23 17.6	269 56.8	N 22 25.5	3 28.9	S 8 02.9	240 33.8	N 27 27.3	56.3				
26 00	5 17.5	182 10.4	S 1 21.0	154 00.4	S 12 42.2	262 00.6	N 23 17.5	284 59.1	N 22 25.6	18 31.5	S 8 02.9	255 00.8	N 27 22.4	56.2	Miaplacidus	221 39.2	S 69 48.8	
01	20 19.9	197 10.6	S 1 22.0	168 59.9	S 12 43.4	277 01.6	N 23 17.5	300 01.5	N 22 25.6	33 34.1	S 8 03.0	269 27.9	N 27 17.3	56.2	Mirfak			

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	SETTEMBRE	16	
d h	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	'	NOME	AR	Dec.		
27 00	6 16.6	182 15.5	S 1 44.4	153 50.0	S 13 09.7	262 24.5	N 23 15.8	285 55.5	N 22 25.7	19 34.6	S 8 04.5	242 17.5	N 24 44.3	55.6	NOME	360	-	AR	Dec.
01	21 19.1	197 15.7	S 1 45.4	168 49.5	S 13 10.8	277 25.5	N 23 15.8	300 57.9	N 22 25.7	34 37.2	S 8 04.6	256 46.9	N 24 36.2	55.6	Acamar	315	11.7	S	40 12.0
02	36 21.5	212 15.9	S 1 46.4	183 49.1	S 13 12.0	292 26.5	N 23 15.7	316 00.2	N 22 25.7	49 39.8	S 8 04.7	271 16.4	N 24 27.9	55.5	Achernar	335	19.8	S	57 06.4
03	51 24.0	227 16.1	S 1 47.3	198 48.7	S 13 13.1	307 27.5	N 23 15.6	331 02.6	N 22 25.7	64 42.5	S 8 04.7	285 46.0	N 24 19.5	55.5	Acruz	173	01.1	S	63 14.2
04	66 26.5	242 16.3	S 1 48.3	213 48.2	S 13 14.3	322 28.5	N 23 15.6	346 04.9	N 22 25.7	79 45.1	S 8 04.8	300 15.7	N 24 11.1	55.5	Adhara	255	06.2	S	29 00.0
05	81 28.9	257 16.5	S 1 49.3	228 47.8	S 13 15.4	337 29.5	N 23 15.5	1 07.3	N 22 25.7	94 47.7	S 8 04.9	314 45.5	N 24 02.5	55.5	Aldebaran	290	39.8	N	16 33.6
06	96 31.4	272 16.8	S 1 50.2	243 47.3	S 13 16.5	352 30.5	N 23 15.4	16 09.7	N 22 25.7	109 50.3	S 8 04.9	329 15.5	N 23 53.8	55.4					
07	111 33.9	287 17.0	S 1 51.2	258 46.9	S 13 17.7	7 31.5	N 23 15.3	31 12.0	N 22 25.7	124 53.0	S 8 05.0	343 45.5	N 23 45.0	55.4	Alioth	166	13.7	N	55 49.7
08	126 36.3	302 17.2	S 1 52.2	273 46.5	S 13 18.8	22 32.5	N 23 15.3	46 14.4	N 22 25.7	139 55.6	S 8 05.1	358 15.6	N 23 36.1	55.4	Alkaid	152	52.6	N	49 11.6
09	141 38.8	317 17.4	S 1 53.2	288 46.0	S 13 19.9	37 33.5	N 23 15.2	61 16.7	N 22 25.7	154 58.2	S 8 05.1	12 45.8	N 23 27.1	55.4	Alnair	27	32.8	S	46 50.5
10	156 41.3	332 17.6	S 1 54.1	303 45.6	S 13 21.1	52 34.5	N 23 15.1	76 19.1	N 22 25.8	170 00.8	S 8 05.2	27 16.1	N 23 18.0	55.3	Alnilam	275	38.0	S	1 11.0
11	171 43.7	347 17.8	S 1 55.1	318 45.1	S 13 22.2	67 35.5	N 23 15.1	91 21.4	N 22 25.8	185 03.5	S 8 05.3	41 46.5	N 23 08.8	55.3	Alphard	217	48.3	S	8 45.8
12	186 46.2	2 18.0	S 1 56.1	333 44.7	S 13 23.3	82 36.5	N 23 15.0	106 23.8	N 22 25.8	200 06.1	S 8 05.3	56 17.0	N 22 59.5	55.3					
13	201 48.6	17 18.2	S 1 57.1	348 44.3	S 13 24.5	97 37.5	N 23 14.9	121 26.2	N 22 25.8	215 08.7	S 8 05.4	70 47.6	N 22 50.1	55.3	Alphecca	126	04.1	N	26 38.1
14	216 51.1	32 18.4	S 1 58.0	3 43.8	S 13 25.6	112 38.5	N 23 14.8	136 28.5	N 22 25.8	230 11.3	S 8 05.5	85 18.3	N 22 40.5	55.2	Alpheratz	357	34.7	N	29 13.7
15	231 53.6	47 18.7	S 1 59.0	18 43.4	S 13 26.7	127 39.5	N 23 14.8	151 30.9	N 22 25.8	245 14.0	S 8 05.5	99 49.1	N 22 30.9	55.2	Altair	62	00.0	N	8 56.1
16	246 56.0	62 18.9	S 2 00.0	33 42.9	S 13 27.9	142 40.5	N 23 14.7	166 33.2	N 22 25.8	260 16.6	S 8 05.6	114 20.0	N 22 21.2	55.2	Ankaa	353	07.0	S	42 10.2
17	261 58.5	77 19.1	S 2 01.0	48 42.5	S 13 29.0	157 41.5	N 23 14.6	181 35.6	N 22 25.8	275 19.2	S 8 05.7	128 51.0	N 22 11.4	55.2	Antares	112	16.3	S	26 29.2
18	277 01.0	92 19.3	S 2 01.9	63 42.0	S 13 30.1	172 42.5	N 23 14.5	196 38.0	N 22 25.8	290 21.8	S 8 05.7	143 22.1	N 22 01.5	55.2					
19	292 03.4	107 19.5	S 2 02.9	78 41.6	S 13 31.2	187 43.5	N 23 14.5	211 40.3	N 22 25.8	305 24.5	S 8 05.8	157 53.2	N 21 51.6	55.1	Arcturus	145	48.4	N	19 03.4
20	307 05.9	122 19.7	S 2 03.9	93 41.1	S 13 32.4	202 44.5	N 23 14.4	226 42.7	N 22 25.8	320 27.1	S 8 05.9	172 24.5	N 21 41.5	55.1	Atria	107	10.8	S	69 04.5
21	322 08.4	137 19.9	S 2 04.8	108 40.7	S 13 33.5	217 45.5	N 23 14.3	241 45.1	N 22 25.8	335 29.7	S 8 05.9	186 55.9	N 21 31.3	55.1	Avior	234	15.3	S	59 35.0
22	337 10.8	152 20.1	S 2 05.8	123 40.3	S 13 34.6	232 46.5	N 23 14.2	256 47.4	N 22 25.8	350 32.3	S 8 06.0	201 27.3	N 21 21.1	55.1	Bellatrix	278	23.2	N	6 22.5
23	352 13.3	167 20.3	S 2 06.8	138 39.8	S 13 35.8	247 47.5	N 23 14.2	271 49.8	N 22 25.8	5 35.0	S 8 06.1	215 58.9	N 21 10.7	55.1	Betelgeuse	270	52.4	N	7 24.8
28 00	7 15.8	182 20.5	S 2 07.8	153 39.4	S 13 36.9	262 48.5	N 23 14.1	286 52.1	N 22 25.8	20 37.6	S 8 06.1	230 30.5	N 21 00.3	55.0	Canopus	263	52.6	S	52 42.1
01	22 18.2	197 20.8	S 2 08.7	168 38.9	S 13 38.0	277 49.5	N 23 14.0	301 54.5	N 22 25.8	35 40.2	S 8 06.2	245 02.3	N 20 49.8	55.0	Capella	280	22.3	N	46 01.2
02	37 20.7	212 21.0	S 2 09.7	183 38.5	S 13 39.1	292 50.5	N 23 13.9	316 56.9	N 22 25.8	50 42.8	S 8 06.3	259 34.1	N 20 39.2	55.0	Castor	245	57.6	N	31 50.1
03	52 23.1	227 21.2	S 2 10.7	198 38.0	S 13 40.3	307 51.6	N 23 13.9	331 59.2	N 22 25.8	65 45.5	S 8 06.3	274 06.0	N 20 28.5	55.0	Deneb	49	25.7	N	45 22.3
04	67 25.6	242 21.4	S 2 11.7	213 37.6	S 13 41.4	322 52.6	N 23 13.8	347 01.6	N 22 25.8	80 48.1	S 8 06.4	288 38.0	N 20 17.8	55.0	Denebola	182	25.5	N	44 26.2
05	82 28.1	257 21.6	S 2 12.6	228 37.1	S 13 42.5	337 53.6	N 23 13.7	2 04.0	N 22 25.9	95 50.7	S 8 06.4	303 10.1	N 20 06.9	54.9					
06	97 30.5	272 21.8	S 2 13.6	243 36.7	S 13 43.6	352 54.6	N 23 13.6	17 06.3	N 22 25.9	110 53.3	S 8 06.5	317 42.3	N 19 56.0	54.9	Diphda	348	47.2	S	17 50.9
07	112 33.0	287 22.0	S 2 14.6	258 36.2	S 13 44.7	7 55.6	N 23 13.6	32 08.7	N 22 25.9	125 56.0	S 8 06.6	332 14.6	N 19 45.0	54.9	Dubhe	193	41.9	N	61 37.1
08	127 35.5	302 22.2	S 2 15.5	273 35.8	S 13 45.9	22 56.6	N 23 13.5	47 11.1	N 22 25.9	140 58.6	S 8 06.6	346 47.0	N 19 33.9	54.9	Elnath	278	02.2	N	28 37.7
09	142 37.9	317 22.4	S 2 16.5	288 35.3	S 13 47.0	37 57.6	N 23 13.4	62 13.4	N 22 25.9	156 01.2	S 8 06.7	1 19.4	N 19 22.7	54.9	Etamin	90	42.2	N	51 29.4
10	157 40.4	332 22.6	S 2 17.5	303 34.9	S 13 48.1	52 58.6	N 23 13.3	77 15.8	N 22 25.9	171 03.8	S 8 06.8	15 52.0	N 19 11.5	54.8	Enif	33	38.8	N	9 59.4
11	172 42.9	347 22.8	S 2 18.5	318 34.4	S 13 49.2	67 59.6	N 23 13.2	92 18.2	N 22 25.9	186 06.5	S 8 06.8	30 24.6	N 19 00.2	54.8					
12	187 45.3	2 23.0	S 2 19.4	333 34.0	S 13 50.3	83 00.6	N 23 13.2	107 20.5	N 22 25.9	201 09.1	S 8 06.9	44 57.3	N 18 48.8	54.8	Fomalhaut	15	14.4	S	29 29.4
13	202 47.8	17 23.3	S 2 20.4	348 33.5	S 13 51.5	98 01.7	N 23 13.1	122 22.9	N 22 25.9	216 11.7	S 8 07.0	59 30.1	N 18 37.4	54.8	Gacrux	171	52.6	S	57 15.1
14	217 50.3	32 23.5	S 2 21.4	3 33.1	S 13 52.6	113 02.7	N 23 13.0	137 25.3	N 22 25.9	231 14.3	S 8 07.0	74 03.0	N 18 25.9	54.8	Gienah	175	44.2	S	17 40.6
15	232 52.7	47 23.7	S 2 22.3	18 32.6	S 13 53.7	128 03.7	N 23 12.9	152 27.6	N 22 25.9	246 17.0	S 8 07.1	88 35.9	N 18 14.3	54.8	Hadar	148	36.9	S	60 29.6
16	247 55.2	62 23.9	S 2 23.3	33 32.1	S 13 54.8	143 04.7	N 23 12.9	167 30.0	N 22 25.9	261 19.6	S 8 07.2	103 09.0	N 18 02.6	54.7	Hamal	327	51.2	N	23 34.8
17	262 57.6	77 24.1	S 2 24.3	48 31.7	S 13 55.9	158 05.7	N 23 12.8	182 32.4	N 22 25.9	276 22.2	S 8 07.2	117 42.1	N 17 50.9	54.7					
18	278 00.1	92 24.3	S 2 25.3	63 31.2	S 13 57.1	173 06.7	N 23 12.7	197 34.7	N 22 25.9	291 24.8	S 8 07.3	132 15.3	N 17 39.1	54.7	Kaus aust.	83	32.8	S	34 22.5
19	293 02.6	107 24.5	S 2 26.2	78 30.8	S 13 58.2	188 07.8	N 23 12.6	212 37.1	N 22 25.9	306 27.5	S 8 07.4	146 48.5	N 17 27.2	54.7	Kochab	137	20.4	N	74 03.4
20	308 05.0	122 24.7	S 2 27.2	93 30.3	S 13 59.3	203 08.8	N 23 12.5	227 39.5	N 22 25.9	321 30.1	S 8 07.4	161 21.9	N 17 15.3	54.7	Markab	13	29.8	N	15 20.4
21	323 07.5	137 24.9	S 2 28.2	108 29.9	S 14 00.4	218 09.8	N 23 12.5	242 41.8	N 22 25.9	336 32.7	S 8 07.5	175 55.3	N 17 03.3	54.7	Menkar	314	06.2	N	4 11.3
22	338 10.0	152 25.1	S 2 29.2	123 29.4	S 14 01.5	233 10.8	N 23 12.4	257 44.2	N 22 25.9	351 35.3	S 8 07.5	190 28.8	N 16 51.3	54.6	Menkent	147	58.3	S	36 29.5
23	353 12.4	167 25.3	S 2 30.1	138 29.0	S 14 02.6	248 11.8	N 23 12.3	272 46.6	N 22 25.9	6 37.9	S 8 07.6	205 02.4	N 16 39.2	54.6					
29 00	8 14.9	182 25.5	S 2 31.1	153 28.5	S 14 03.7	263 12.8	N 23 12.2	287 49.0	N 22 25.9	21 40.6	S 8 07.7	219 36.1	N 16 27.0						

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	SETTEMBRE	19
d h	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	'	NOME	360	- AR	Dec.
30 00	9 14.0	182 30.5	S 2 54.4	153 17.4	S 14 30.3	263 37.4	N 23 10.3	288 46.0	N 22 26.0	22 43.5	S 8 09.2	209 24.0	N 11 19.2	54.3	NOME	360	- AR	Dec.
01	24 16.5	197 30.7	S 2 55.4	168 16.9	S 14 31.4	278 38.4	N 23 10.2	303 48.4	N 22 26.1	37 46.1	S 8 09.3	223 59.2	N 11 05.8	54.3	Acamar	315	11.7	S 40 12.0
02	39 19.0	212 30.9	S 2 56.3	183 16.5	S 14 32.5	293 39.5	N 23 10.1	318 50.8	N 22 26.1	52 48.7	S 8 09.3	238 34.5	N 10 52.4	54.3	Achernar	335	19.8	S 57 06.5
03	54 21.4	227 31.1	S 2 57.3	198 16.0	S 14 33.6	308 40.5	N 23 10.0	333 53.1	N 22 26.1	67 51.4	S 8 09.4	253 09.8	N 10 38.9	54.3	Acruz	173	01.2	S 63 14.1
04	69 23.9	242 31.3	S 2 58.3	213 15.5	S 14 34.7	323 41.5	N 23 09.9	348 55.5	N 22 26.1	82 54.0	S 8 09.5	267 45.2	N 10 25.4	54.3	Adhara	255	06.2	S 29 00.0
05	84 26.3	257 31.5	S 2 59.3	228 15.0	S 14 35.8	338 42.6	N 23 09.9	3 57.9	N 22 26.1	97 56.6	S 8 09.5	282 20.6	N 10 11.9	54.2	Aldebaran	290	39.8	N 16 33.6
06	99 28.8	272 31.7	S 3 00.2	243 14.6	S 14 36.9	353 43.6	N 23 09.8	19 00.3	N 22 26.1	112 59.2	S 8 09.6	296 56.1	N 9 58.4	54.2				
07	114 31.3	287 31.9	S 3 01.2	258 14.1	S 14 38.0	8 44.6	N 23 09.7	34 02.7	N 22 26.1	128 01.8	S 8 09.7	311 31.6	N 9 44.8	54.2	Alioth	166	13.7	N 55 49.7
08	129 33.7	302 32.1	S 3 02.2	273 13.6	S 14 39.1	23 45.7	N 23 09.6	49 05.1	N 22 26.1	143 04.5	S 8 09.7	326 07.2	N 9 31.2	54.2	Alkaid	152	52.6	N 49 11.6
09	144 36.2	317 32.3	S 3 03.1	288 13.2	S 14 40.1	38 46.7	N 23 09.5	64 07.4	N 22 26.1	158 07.1	S 8 09.8	340 42.8	N 9 17.5	54.2	Alnair	27	32.8	S 46 50.5
10	159 38.7	332 32.5	S 3 04.1	303 12.7	S 14 41.2	53 47.7	N 23 09.4	79 09.8	N 22 26.1	173 09.7	S 8 09.8	355 18.4	N 9 03.8	54.2	Alnilam	275	38.0	S 1 11.0
11	174 41.1	347 32.7	S 3 05.1	318 12.2	S 14 42.3	68 48.7	N 23 09.4	94 12.2	N 22 26.1	188 12.3	S 8 09.9	9 54.1	N 8 50.1	54.2	Alphard	217	48.3	S 8 45.7
12	189 43.6	2 32.9	S 3 06.0	333 11.7	S 14 43.4	83 49.8	N 23 09.3	109 14.6	N 22 26.1	203 15.0	S 8 10.0	24 29.8	N 8 36.4	54.2				
13	204 46.1	17 33.1	S 3 07.0	348 11.3	S 14 44.5	98 50.8	N 23 09.2	124 17.0	N 22 26.1	218 17.6	S 8 10.0	39 05.6	N 8 22.6	54.2	Alphecca	126	04.1	N 26 38.1
14	219 48.5	32 33.3	S 3 08.0	3 10.8	S 14 45.6	113 51.9	N 23 09.1	139 19.4	N 22 26.1	233 20.2	S 8 10.1	53 41.4	N 8 08.9	54.2	Alpheratz	357	34.7	N 29 13.7
15	234 51.0	47 33.5	S 3 09.0	18 10.3	S 14 46.7	128 52.9	N 23 09.0	154 21.7	N 22 26.1	248 22.8	S 8 10.2	68 17.2	N 7 55.0	54.2	Altair	62	00.0	N 8 56.1
16	249 53.5	62 33.7	S 3 09.9	33 09.8	S 14 47.8	143 53.9	N 23 08.9	169 24.1	N 22 26.1	263 25.4	S 8 10.2	82 53.1	N 7 41.2	54.1	Ankaa	353	07.0	S 42 10.2
17	264 55.9	77 33.9	S 3 10.9	48 09.4	S 14 48.9	158 55.0	N 23 08.8	184 26.5	N 22 26.1	278 28.1	S 8 10.3	97 29.0	N 7 27.3	54.1	Antares	112	16.3	S 26 29.2
18	279 58.4	92 34.1	S 3 11.9	63 08.9	S 14 50.0	173 56.0	N 23 08.8	199 28.9	N 22 26.1	293 30.7	S 8 10.3	112 05.0	N 7 13.5	54.1				
19	295 00.8	107 34.3	S 3 12.8	78 08.4	S 14 51.1	188 57.0	N 23 08.7	214 31.3	N 22 26.1	308 33.3	S 8 10.4	126 41.0	N 6 59.6	54.1	Arcturus	145	48.4	N 19 03.4
20	310 03.3	122 34.5	S 3 13.8	93 07.9	S 14 52.1	203 58.1	N 23 08.6	229 33.7	N 22 26.1	323 35.9	S 8 10.5	141 17.0	N 6 45.6	54.1	Atria	107	10.8	S 69 04.5
21	325 05.8	137 34.7	S 3 14.8	108 07.5	S 14 53.2	218 59.1	N 23 08.5	244 36.1	N 22 26.1	338 38.5	S 8 10.5	155 53.0	N 6 31.7	54.1	Avior	234	15.3	S 59 35.0
22	340 08.2	152 34.9	S 3 15.7	123 07.0	S 14 54.3	234 00.2	N 23 08.4	259 38.5	N 22 26.1	353 41.2	S 8 10.6	170 29.1	N 6 17.7	54.1	Bellatrix	278	23.1	N 6 22.5
23	355 10.7	167 35.1	S 3 16.7	138 06.5	S 14 55.4	249 01.2	N 23 08.3	274 40.8	N 22 26.1	8 43.8	S 8 10.7	185 05.2	N 6 03.7	54.1	Betelgeuse	270	52.4	N 7 24.8
Ott																		
01 00	10 13.2	182 35.3	S 3 17.7	153 06.0	S 14 56.5	264 02.2	N 23 08.2	289 43.2	N 22 26.1	23 46.4	S 8 10.7	199 41.3	N 5 49.7	54.1	Canopus	263	52.6	S 52 42.1
01 01	25 15.6	197 35.5	S 3 18.7	168 05.6	S 14 57.6	279 03.3	N 23 08.2	304 45.6	N 22 26.1	38 49.0	S 8 10.8	214 17.5	N 5 35.7	54.1	Capella	280	22.2	N 46 01.3
02	40 18.1	212 35.7	S 3 19.6	183 05.1	S 14 58.7	294 04.3	N 23 08.1	319 48.0	N 22 26.1	53 51.6	S 8 10.8	228 53.7	N 5 21.7	54.1	Castor	245	57.6	N 31 50.1
03	55 20.6	227 35.9	S 3 20.6	198 04.6	S 14 59.7	309 05.4	N 23 08.0	334 50.4	N 22 26.1	68 54.2	S 8 10.9	243 29.9	N 5 07.6	54.1	Deneb	49	25.7	N 45 22.3
04	70 23.0	242 36.1	S 3 21.6	213 04.1	S 15 00.8	324 06.4	N 23 07.9	349 52.8	N 22 26.2	83 56.9	S 8 11.0	258 06.1	N 4 53.5	54.1	Denebola	182	25.5	N 14 26.2
05	85 25.5	257 36.3	S 3 22.5	228 03.6	S 15 01.9	339 07.4	N 23 07.8	4 55.2	N 22 26.2	98 59.5	S 8 11.0	272 42.3	N 4 39.4	54.1				
06	100 28.0	272 36.5	S 3 23.5	243 03.2	S 15 03.0	354 08.5	N 23 07.7	19 57.6	N 22 26.2	114 02.1	S 8 11.1	287 18.6	N 4 25.3	54.0	Diphda	348	47.2	S 17 50.9
07	115 30.4	287 36.7	S 3 24.5	258 02.7	S 15 04.1	9 09.5	N 23 07.6	35 00.0	N 22 26.2	129 04.7	S 8 11.2	301 54.9	N 4 11.2	54.0	Dubhe	193	41.9	N 61 37.1
08	130 32.9	302 36.9	S 3 25.4	273 02.2	S 15 05.1	24 10.6	N 23 07.5	50 02.4	N 22 26.2	144 07.3	S 8 11.2	316 31.2	N 3 57.1	54.0	Elnath	278	02.2	N 28 37.7
09	145 35.3	317 37.1	S 3 26.4	288 01.7	S 15 06.2	39 11.6	N 23 07.5	65 04.8	N 22 26.2	159 10.0	S 8 11.3	331 07.6	N 3 43.0	54.0	Etamin	90	42.3	N 51 29.4
10	160 37.8	332 37.3	S 3 27.4	303 01.2	S 15 07.3	54 12.7	N 23 07.4	80 07.2	N 22 26.2	174 12.6	S 8 11.3	345 43.9	N 3 28.8	54.0	Enif	33	38.8	N 9 59.4
11	175 40.3	347 37.5	S 3 28.3	318 00.7	S 15 08.4	69 13.7	N 23 07.3	95 09.5	N 22 26.2	189 15.2	S 8 11.4	0 20.3	N 3 14.7	54.0				
12	190 42.7	2 37.7	S 3 29.3	333 00.3	S 15 09.5	84 14.7	N 23 07.2	110 11.9	N 22 26.2	204 17.8	S 8 11.5	14 56.7	N 3 00.5	54.0	Fomalhaut	15	14.4	S 29 29.4
13	205 45.2	17 37.9	S 3 30.3	347 59.8	S 15 10.5	99 15.8	N 23 07.1	125 14.3	N 22 26.2	219 20.4	S 8 11.5	29 33.1	N 2 46.3	54.0	Gacrux	171	52.6	S 57 15.1
14	220 47.7	32 38.1	S 3 31.3	2 59.3	S 15 11.6	114 16.8	N 23 07.0	140 16.7	N 22 26.2	234 23.1	S 8 11.6	44 09.5	N 2 32.1	54.0	Gienah	175	44.2	S 17 40.6
15	235 50.1	47 38.3	S 3 32.2	17 58.8	S 15 12.7	129 17.9	N 23 06.9	155 19.1	N 22 26.2	249 25.7	S 8 11.6	58 45.9	N 2 17.9	54.0	Hadar	148	36.9	S 60 29.6
16	250 52.6	62 38.5	S 3 33.2	32 58.3	S 15 13.8	144 18.9	N 23 06.8	170 21.5	N 22 26.2	264 28.3	S 8 11.7	73 22.4	N 2 03.8	54.0	Hamal	327	51.2	N 23 34.8
17	265 55.1	77 38.7	S 3 34.2	47 57.8	S 15 14.8	159 20.0	N 23 06.8	185 23.9	N 22 26.2	279 30.9	S 8 11.8	87 58.8	N 1 49.6	54.0				
18	280 57.5	92 38.9	S 3 35.1	62 57.3	S 15 15.9	174 21.0	N 23 06.7	200 26.3	N 22 26.2	294 33.5	S 8 11.8	102 35.3	N 1 35.3	54.0	Kaus aust.	83	32.8	S 34 22.5
19	296 00.0	107 39.1	S 3 36.1	77 56.9	S 15 17.0	189 22.1	N 23 06.6	215 28.7	N 22 26.2	309 36.1	S 8 11.9	117 11.7	N 1 21.1	54.0	Kochab	137	20.5	N 74 03.4
20	311 02.4	122 39.3	S 3 37.1	92 56.4	S 15 18.1	204 23.1	N 23 06.5	230 31.1	N 22 26.2	324 38.8	S 8 12.0	131 48.2	N 1 06.9	54.0	Markab	13	29.8	N 15 20.4
21	326 04.9	137 39.5	S 3 38.0	107 55.9	S 15 19.1	219 24.2	N 23 06.4	245 33.5	N 22 26.2	339 41.4	S 8 12.0	146 24.7	N 0 52.7	54.0	Menkar	314	06.2	N 4 11.3
22	341 07.4	152 39.7	S 3 39.0	122 55.4	S 15 20.2	234 25.2	N 23 06.3	260 35.9	N 22 26.2	354 44.0	S 8 12.1	161 01.2	N 0 38.5	54.0	Menkent	147	58.3	S 36 29.5
23	356 09.8	167 39.9	S 3 40.0	137 54.9	S 15 21.3	249 26.3	N 23 06.2	275 38.3	N 22 26.2	9 46.6	S 8 12.1	175 37.7	N 0 24.3	54.0				
02 00	11 12.3	182 40.1	S 3 40.9	152 54.4	S 15 22.3	264 27.3	N 23 06.1	290 40.7	N 22 26.2	24 49.2	S 8 12.2	190 14.2	N 0 10.1	54.0	Miaplacidus	221	39.1	S 69 48.8
01	26 14.8	197 40.3	S 3 41.9	167 53.9	S 15 23.4	279 28.4	N 23 06.0	305										

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	SETTEMBRE	22
03 00	12 11.4	182 44.8	S 4 04.1	152 42.5	S 15 47.8	264 52.7	N 23 03.9	291 38.4	N 22 26.3	25 52.0	S 8 13.7	180 48.7	S 5 29.2	53.9	NOME	360 - AR	Dec.	
01	27 13.9	197 45.0	S 4 05.1	167 42.0	S 15 48.9	279 53.7	N 23 03.8	306 40.8	N 22 26.3	40 54.6	S 8 13.7	195 25.0	S 5 43.2	53.9	Acamar	315 11.7	S 40 12.1	
02	42 16.4	212 45.2	S 4 06.1	182 41.5	S 15 49.9	294 54.8	N 23 03.8	321 43.2	N 22 26.3	55 57.3	S 8 13.8	210 01.2	S 5 57.2	53.9	Achernar	335 19.8	S 57 06.5	
03	57 18.8	227 45.4	S 4 07.0	197 41.0	S 15 51.0	309 55.9	N 23 03.7	336 45.6	N 22 26.3	70 59.9	S 8 13.8	224 37.4	S 6 11.1	53.9	Acruz	173 01.2	S 63 14.1	
04	72 21.3	242 45.6	S 4 08.0	212 40.5	S 15 52.1	324 56.9	N 23 03.6	351 48.0	N 22 26.3	86 02.5	S 8 13.9	239 13.6	S 6 25.0	53.9	Adhara	255 06.2	S 29 00.0	
05	87 23.8	257 45.8	S 4 09.0	227 40.0	S 15 53.1	339 58.0	N 23 03.5	6 50.4	N 22 26.3	101 05.1	S 8 14.0	253 49.8	S 6 38.9	53.9	Aldebaran	290 39.8	N 16 33.6	
06	102 26.2	272 46.0	S 4 09.9	242 39.5	S 15 54.2	354 59.1	N 23 03.4	21 52.8	N 22 26.3	116 07.7	S 8 14.0	268 26.0	S 6 52.8	53.9				
07	117 28.7	287 46.2	S 4 10.9	257 39.0	S 15 55.2	10 00.1	N 23 03.3	36 55.2	N 22 26.3	131 10.3	S 8 14.1	283 02.1	S 7 06.6	53.9	Alioth	166 13.7	N 55 49.7	
08	132 31.2	302 46.4	S 4 11.9	272 38.5	S 15 56.3	25 01.2	N 23 03.2	51 57.6	N 22 26.3	146 12.9	S 8 14.1	297 38.2	S 7 20.5	54.0	Alkaid	152 52.6	N 49 11.6	
09	147 33.6	317 46.5	S 4 12.8	287 38.0	S 15 57.3	40 02.3	N 23 03.1	67 00.0	N 22 26.3	161 15.6	S 8 14.2	312 14.2	S 7 34.3	54.0	Alnair	27 32.8	S 46 50.5	
10	162 36.1	332 46.7	S 4 13.8	302 37.5	S 15 58.4	55 03.3	N 23 03.0	82 02.5	N 22 26.3	176 18.2	S 8 14.3	326 50.3	S 7 48.0	54.0	Alnilam	275 38.0	S 1 11.0	
11	177 38.5	347 46.9	S 4 14.8	317 37.0	S 15 59.4	70 04.4	N 23 02.9	97 04.9	N 22 26.3	191 20.8	S 8 14.3	341 26.3	S 8 01.8	54.0	Alphard	217 48.3	S 8 45.7	
12	192 41.0	2 47.1	S 4 15.7	332 36.5	S 16 00.4	85 05.5	N 23 02.8	112 07.3	N 22 26.3	206 23.4	S 8 14.4	356 02.3	S 8 15.5	54.0				
13	207 43.5	17 47.3	S 4 16.7	347 36.0	S 16 01.5	100 06.5	N 23 02.7	127 09.7	N 22 26.3	221 26.0	S 8 14.4	10 38.2	S 8 29.2	54.0	Alphecca	126 04.1	N 26 38.1	
14	222 45.9	32 47.5	S 4 17.7	2 35.5	S 16 02.5	115 07.6	N 23 02.6	142 12.1	N 22 26.3	236 28.6	S 8 14.5	25 14.1	S 8 42.8	54.0	Alpheratz	357 34.7	N 29 13.7	
15	237 48.4	47 47.7	S 4 18.6	17 35.0	S 16 03.6	130 08.7	N 23 02.5	157 14.5	N 22 26.3	251 31.2	S 8 14.6	39 50.0	S 8 56.5	54.0	Altair	62 00.1	N 8 56.1	
16	252 50.9	62 47.9	S 4 19.6	32 34.4	S 16 04.6	145 09.7	N 23 02.4	172 16.9	N 22 26.3	266 33.9	S 8 14.6	54 25.8	S 9 10.1	54.0	Ankaa	353 07.7	S 42 10.2	
17	267 53.3	77 48.1	S 4 20.5	47 33.9	S 16 05.7	160 10.8	N 23 02.3	187 19.3	N 22 26.3	281 36.5	S 8 14.7	69 01.6	S 9 23.6	54.0	Antares	112 16.3	S 26 29.2	
18	282 55.8	92 48.3	S 4 21.5	62 33.4	S 16 06.7	175 11.9	N 23 02.2	202 21.8	N 22 26.3	296 39.1	S 8 14.7	83 37.4	S 9 37.2	54.0				
19	297 58.3	107 48.5	S 4 22.5	77 32.9	S 16 07.8	190 13.0	N 23 02.2	217 24.2	N 22 26.3	311 41.7	S 8 14.8	98 13.1	S 9 50.7	54.0	Arcturus	145 48.4	N 19 03.4	
20	313 00.7	122 48.7	S 4 23.4	92 32.4	S 16 08.8	205 14.0	N 23 02.1	232 26.6	N 22 26.3	326 44.3	S 8 14.9	112 48.8	S 10 04.1	54.0	Atria	107 10.9	S 69 04.5	
21	328 03.2	137 48.9	S 4 24.4	107 31.9	S 16 09.8	220 15.1	N 23 02.0	247 29.0	N 22 26.3	341 46.9	S 8 14.9	127 24.5	S 10 17.6	54.0	Avior	234 15.3	S 59 35.0	
22	343 05.6	152 49.0	S 4 25.4	122 31.4	S 16 10.9	235 16.2	N 23 01.9	262 31.4	N 22 26.3	356 49.5	S 8 15.0	142 00.1	S 10 31.0	54.0	Bellatrix	278 23.1	N 6 22.5	
23	358 08.1	167 49.2	S 4 26.3	137 30.9	S 16 11.9	250 17.2	N 23 01.8	277 33.8	N 22 26.3	11 52.1	S 8 15.0	156 35.7	S 10 44.3	54.0	Betelgeuse	270 52.4	N 7 24.8	
04 00	13 10.6	182 49.4	S 4 27.3	152 30.4	S 16 13.0	265 18.3	N 23 01.7	292 36.3	N 22 26.3	26 54.8	S 8 15.1	171 11.2	S 10 57.7	54.0	Canopus	263 52.6	S 52 42.1	
01	28 13.0	197 49.6	S 4 28.3	167 29.8	S 16 14.0	280 19.4	N 23 01.6	307 38.7	N 22 26.3	41 57.4	S 8 15.2	185 46.7	S 11 11.0	54.0	Capella	280 22.2	N 46 01.3	
02	43 15.5	212 49.8	S 4 29.2	182 29.3	S 16 15.0	295 20.5	N 23 01.5	322 41.1	N 22 26.3	57 00.0	S 8 15.2	200 22.1	S 11 24.2	54.0	Castor	245 57.5	N 31 50.0	
03	58 18.0	227 50.0	S 4 30.2	197 28.8	S 16 16.1	310 21.5	N 23 01.4	337 43.5	N 22 26.3	72 02.6	S 8 15.3	214 57.5	S 11 37.4	54.0	Deneb	49 25.7	N 45 22.3	
04	73 20.4	242 50.2	S 4 31.1	212 28.3	S 16 17.1	325 22.6	N 23 01.3	352 45.9	N 22 26.3	87 05.2	S 8 15.3	229 32.8	S 11 50.6	54.0	Denebola	182 25.5	N 14 26.2	
05	88 22.9	257 50.4	S 4 32.1	227 27.8	S 16 18.1	340 23.7	N 23 01.2	7 48.3	N 22 26.3	102 07.8	S 8 15.4	244 08.1	S 12 03.7	54.0				
06	103 25.4	272 50.6	S 4 33.1	242 27.3	S 16 19.2	355 24.8	N 23 01.1	22 50.8	N 22 26.3	117 10.4	S 8 15.4	258 43.4	S 12 16.8	54.0	Diphda	348 47.2	S 17 50.9	
07	118 27.8	287 50.8	S 4 34.0	257 26.8	S 16 20.2	10 25.8	N 23 01.0	37 53.2	N 22 26.3	132 13.0	S 8 15.5	273 18.6	S 12 29.9	54.0	Dubhe	193 41.9	N 61 37.1	
08	133 30.3	302 50.9	S 4 35.0	272 26.2	S 16 21.2	25 26.9	N 23 00.9	52 55.6	N 22 26.3	147 15.7	S 8 15.6	287 53.7	S 12 42.9	54.0	Elnath	278 02.2	N 28 37.7	
09	148 32.8	317 51.1	S 4 36.0	287 25.7	S 16 22.3	40 28.0	N 23 00.8	67 58.0	N 22 26.3	162 18.3	S 8 15.6	302 28.8	S 12 55.8	54.0	Etamin	90 42.3	N 51 29.4	
10	163 35.2	332 51.3	S 4 36.9	302 25.2	S 16 23.3	55 29.1	N 23 00.7	83 00.4	N 22 26.3	177 20.9	S 8 15.7	317 03.9	S 13 08.7	54.1	Enif	33 38.8	N 9 59.4	
11	178 37.7	347 51.5	S 4 37.9	317 24.7	S 16 24.3	70 30.2	N 23 00.6	98 02.9	N 22 26.4	192 23.5	S 8 15.7	331 38.9	S 13 21.6	54.1				
12	193 40.1	2 51.7	S 4 38.9	332 24.2	S 16 25.4	85 31.2	N 23 00.5	113 05.3	N 22 26.4	207 26.1	S 8 15.8	346 13.8	S 13 34.4	54.1	Fomalhaut	15 14.4	S 29 29.4	
13	208 42.6	17 51.9	S 4 39.8	347 23.7	S 16 26.4	100 32.3	N 23 00.4	128 07.7	N 22 26.4	222 28.7	S 8 15.9	0 48.7	S 13 47.2	54.1	Gacrux	171 52.6	S 57 15.1	
14	223 45.1	32 52.1	S 4 40.8	2 23.1	S 16 27.4	115 33.4	N 23 00.3	143 10.1	N 22 26.4	237 31.3	S 8 15.9	15 23.5	S 13 59.9	54.1	Gienah	175 44.2	S 17 40.6	
15	238 47.5	47 52.3	S 4 41.7	17 22.6	S 16 28.5	130 34.5	N 23 00.2	158 12.5	N 22 26.4	252 33.9	S 8 16.0	29 58.3	S 14 12.6	54.1	Hadar	148 37.0	S 60 29.6	
16	253 50.0	62 52.5	S 4 42.7	32 22.1	S 16 29.5	145 35.6	N 23 00.1	173 15.0	N 22 26.4	267 36.6	S 8 16.0	44 33.0	S 14 25.2	54.1	Hamal	327 51.2	N 23 34.8	
17	268 52.5	77 52.6	S 4 43.7	47 21.6	S 16 30.5	160 36.6	N 23 00.0	188 17.4	N 22 26.4	282 39.2	S 8 16.1	59 07.7	S 14 37.7	54.1				
18	283 54.9	92 52.8	S 4 44.6	62 21.1	S 16 31.5	175 37.7	N 22 59.9	203 19.8	N 22 26.4	297 41.8	S 8 16.1	73 42.3	S 14 50.3	54.1	Kaus aust.	83 32.8	S 34 22.5	
19	298 57.4	107 53.0	S 4 45.6	77 20.5	S 16 32.6	190 38.8	N 22 59.8	218 22.2	N 22 26.4	312 44.4	S 8 16.2	88 16.8	S 15 02.7	54.1	Kochab	137 20.5	N 74 03.4	
20	313 59.9	122 53.2	S 4 46.6	92 20.0	S 16 33.6	205 39.9	N 22 59.7	233 24.7	N 22 26.4	327 47.0	S 8 16.3	102 51.3	S 15 15.1	54.1	Markab	13 29.8	N 15 20.4	
21	329 02.3	137 53.4	S 4 47.5	107 19.5	S 16 34.6	220 41.0	N 22 59.6	248 27.1	N 22 26.4	342 49.6	S 8 16.3	117 25.7	S 15 27.5	54.1	Menkar	314 06.2	N 4 11.3	
22	344 04.8	152 53.6	S 4 48.5	122 19.0	S 16 35.6	235 42.1	N 22 59.5	263 29.5	N 22 26.4	357 52.2	S 8 16.4	132 00.1	S 15 39.8	54.1	Menkent	147 58.3	S 36 29.5	
23	359 07.2	167 53.8	S 4 49.4	137 18.5	S 16 36.7	250 43.1	N 22 59.4	278 31.9	N 22 26.4	12 54.8	S 8 16.4	146 34.4	S 15 52.0	54.1				
05 00	14 09.7	182 54.0	S 4 50.4	152 17.9	S 16 37.7	265 44.2	N 22 59.3	293 34.4	N 22 26.4	27 57.4	S 8 16.5	161 08.6	S 16 04.2	54.2	Miaplacidus	221 39.1	S 69 48.8	
01	29 12.2	197 54.1	S 4 51.4	167 17.4	S 16 38.7	280 45.3	N 22 59.2	308 36.8	N 22 26.4	43 00.1	S 8 16.6	175 42.8	S 16 16.3	54.2	Mirfak	308 28.3	N 49 56.8	
02	44 14.6	212 54.3	S 4 52.3	182 16.9	S 16 39.7	295 46.4	N 2											

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	SETTEMBRE	25
d h	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "
06 00	15 08.9	182 58.4	S 5 13.4	152 05.2	S 17 02.0	266 10.4	N 22 56.9	294 32.7	N 22 26.4	29 00.1	S 8 17.9	150 29.3	S 20 36.6	54.4	NOME	360	- AR	Dec.
01	30 11.3	197 58.6	S 5 14.4	167 04.7	S 17 03.0	281 11.5	N 22 56.8	309 35.1	N 22 26.4	44 02.7	S 8 17.9	165 01.7	S 20 47.0	54.4	Acamar	315 11.6	S 40 12.1	
02	45 13.8	212 58.8	S 5 15.4	182 04.1	S 17 04.0	296 12.6	N 22 56.7	324 37.5	N 22 26.4	59 05.3	S 8 18.0	179 34.0	S 20 57.4	54.4	Achernar	335 19.8	S 57 06.5	
03	60 16.2	227 58.9	S 5 16.3	197 03.6	S 17 05.0	311 13.7	N 22 56.6	339 40.0	N 22 26.4	74 07.9	S 8 18.0	194 06.3	S 21 07.6	54.4	Acruz	173 01.1	S 63 14.1	
04	75 18.7	242 59.1	S 5 17.3	212 03.1	S 17 06.0	326 14.8	N 22 56.5	354 42.4	N 22 26.4	89 10.5	S 8 18.1	208 38.4	S 21 17.8	54.5	Adhara	255 06.1	S 29 00.0	
05	90 21.2	257 59.3	S 5 18.2	227 02.5	S 17 07.0	341 15.9	N 22 56.4	9 44.8	N 22 26.4	104 13.1	S 8 18.2	223 10.5	S 21 27.9	54.5	Aldebaran	290 39.8	N 16 33.6	
06	105 23.6	272 59.5	S 5 19.2	242 02.0	S 17 08.1	356 17.0	N 22 56.3	24 47.3	N 22 26.4	119 15.7	S 8 18.2	237 42.5	S 21 37.8	54.5				
07	120 26.1	287 59.7	S 5 20.1	257 01.5	S 17 09.1	11 18.1	N 22 56.2	39 49.7	N 22 26.4	134 18.3	S 8 18.3	252 14.5	S 21 47.7	54.5	Alioth	166 13.7	N 55 49.7	
08	135 28.6	302 59.9	S 5 21.1	272 00.9	S 17 10.1	26 19.2	N 22 56.1	54 52.2	N 22 26.4	149 20.9	S 8 18.3	266 46.3	S 21 57.6	54.5	Alkaid	152 52.6	N 49 11.6	
09	150 31.0	318 00.0	S 5 22.1	287 00.4	S 17 11.1	41 20.3	N 22 56.0	69 54.6	N 22 26.4	164 23.5	S 8 18.4	281 18.1	S 22 07.3	54.5	Alnair	27 32.8	S 46 50.5	
10	165 33.5	333 00.2	S 5 23.0	301 59.8	S 17 12.1	56 21.4	N 22 55.9	84 57.0	N 22 26.4	179 26.2	S 8 18.4	295 49.7	S 22 16.9	54.5	Alnilam	275 37.9	S 1 11.0	
11	180 36.0	348 00.4	S 5 24.0	316 59.3	S 17 13.0	71 22.5	N 22 55.8	99 55.9	N 22 26.4	194 28.8	S 8 18.5	310 21.3	S 22 26.4	54.5	Alphard	217 48.2	S 8 45.7	
12	195 38.4	3 00.6	S 5 24.9	331 58.8	S 17 14.0	86 23.6	N 22 55.7	115 01.9	N 22 26.4	209 31.4	S 8 18.5	324 52.8	S 22 35.9	54.6				
13	210 40.9	18 00.8	S 5 25.9	346 58.2	S 17 15.0	101 24.7	N 22 55.6	130 04.3	N 22 26.4	224 34.0	S 8 18.6	339 24.3	S 22 45.2	54.6	Alphecca	126 04.2	N 26 38.1	
14	225 43.3	33 00.9	S 5 26.8	1 57.7	S 17 16.0	116 25.8	N 22 55.5	145 06.8	N 22 26.4	239 36.6	S 8 18.7	353 55.6	S 22 54.5	54.6	Alpheratz	357 34.7	N 29 13.7	
15	240 45.8	48 01.1	S 5 27.8	16 57.1	S 17 17.0	131 26.9	N 22 55.4	160 09.2	N 22 26.4	254 39.2	S 8 18.7	8 26.9	S 23 03.6	54.6	Altair	62 00.1	N 8 56.1	
16	255 48.3	63 01.3	S 5 28.8	31 56.6	S 17 18.0	146 28.0	N 22 55.3	175 11.7	N 22 26.4	269 41.8	S 8 18.8	22 58.0	S 23 12.7	54.6	Ankaa	353 07.0	S 42 10.2	
17	270 50.7	78 01.5	S 5 29.7	46 56.0	S 17 19.0	161 29.2	N 22 55.2	190 14.1	N 22 26.4	284 44.4	S 8 18.8	37 29.1	S 23 21.6	54.6	Antares	112 16.3	S 26 29.2	
18	285 53.2	93 01.7	S 5 30.7	61 55.5	S 17 20.0	176 30.3	N 22 55.1	205 16.5	N 22 26.4	299 47.0	S 8 18.9	52 00.1	S 23 30.5	54.7				
19	300 55.7	108 01.8	S 5 31.6	76 55.0	S 17 21.0	191 31.4	N 22 55.0	220 19.0	N 22 26.4	314 49.6	S 8 18.9	66 31.0	S 23 39.3	54.7	Arcturus	145 48.4	N 19 03.4	
20	315 58.1	123 02.0	S 5 32.6	91 54.4	S 17 22.0	206 32.5	N 22 54.9	235 21.4	N 22 26.4	329 52.2	S 8 19.0	81 01.8	S 23 47.9	54.7	Atria	107 10.9	S 69 04.5	
21	331 00.6	138 02.2	S 5 33.5	106 53.9	S 17 23.0	221 33.6	N 22 54.8	250 23.9	N 22 26.4	344 54.8	S 8 19.1	95 32.6	S 23 56.5	54.7	Avior	234 15.2	S 59 35.0	
22	346 03.1	153 02.4	S 5 34.5	121 53.3	S 17 24.0	236 34.7	N 22 54.7	265 26.3	N 22 26.4	359 57.4	S 8 19.1	110 03.2	S 24 04.9	54.7	Bellatrix	278 23.1	N 6 22.5	
23	1 05.5	168 02.6	S 5 35.5	136 52.8	S 17 25.0	251 35.8	N 22 54.6	280 28.8	N 22 26.4	15 00.0	S 8 19.2	124 33.8	S 24 13.2	54.7	Betelgeuse	270 52.3	N 7 24.8	
07 00	16 08.0	183 02.7	S 5 36.4	151 52.2	S 17 26.0	266 36.9	N 22 54.5	295 31.2	N 22 26.4	30 02.6	S 8 19.2	139 04.3	S 24 21.5	54.8	Canopus	263 52.5	S 52 42.1	
01	31 10.5	198 02.9	S 5 37.4	166 51.7	S 17 26.9	281 38.0	N 22 54.4	310 33.6	N 22 26.4	45 05.3	S 8 19.3	153 34.7	S 24 29.6	54.8	Capella	280 22.2	N 46 01.3	
02	46 12.9	213 03.1	S 5 38.3	181 51.1	S 17 27.9	296 39.1	N 22 54.3	325 36.1	N 22 26.4	60 07.9	S 8 19.3	168 05.0	S 24 37.6	54.8	Castor	245 57.5	N 31 50.0	
03	61 15.4	228 03.3	S 5 39.3	196 50.6	S 17 28.9	311 40.2	N 22 54.2	340 38.5	N 22 26.4	75 10.5	S 8 19.4	182 35.2	S 24 45.5	54.8	Deneb	49 25.7	N 45 22.3	
04	76 17.8	243 03.5	S 5 40.2	211 50.0	S 17 29.9	326 41.4	N 22 54.1	355 41.0	N 22 26.4	90 13.1	S 8 19.4	197 05.3	S 24 53.3	54.8	Denebola	182 25.5	N 14 26.2	
05	91 20.3	258 03.6	S 5 41.2	226 49.5	S 17 30.9	341 42.5	N 22 54.0	10 43.4	N 22 26.4	105 15.7	S 8 19.5	211 35.4	S 25 01.0	54.8				
06	106 22.8	273 03.8	S 5 42.1	241 48.9	S 17 31.9	356 43.6	N 22 53.8	25 45.9	N 22 26.4	120 18.3	S 8 19.6	226 05.4	S 25 08.6	54.9	Diphda	348 47.2	S 17 50.9	
07	121 25.2	288 04.0	S 5 43.1	256 48.4	S 17 32.9	11 44.7	N 22 53.7	40 48.3	N 22 26.4	135 20.9	S 8 19.6	240 35.2	S 25 16.0	54.9	Dubhe	193 41.9	N 61 37.0	
08	136 27.7	303 04.2	S 5 44.1	271 47.8	S 17 33.8	26 45.8	N 22 53.6	55 50.8	N 22 26.4	150 23.5	S 8 19.7	255 05.0	S 25 23.4	54.9	Elnath	278 02.1	N 28 37.7	
09	151 30.2	318 04.3	S 5 45.0	286 47.3	S 17 34.8	41 46.9	N 22 53.5	70 53.2	N 22 26.4	165 26.1	S 8 19.7	269 34.7	S 25 30.6	54.9	Etamin	90 42.3	N 51 29.4	
10	166 32.6	333 04.5	S 5 46.0	301 46.7	S 17 35.8	56 48.0	N 22 53.4	85 55.7	N 22 26.4	180 28.7	S 8 19.8	284 04.4	S 25 37.7	54.9	Enif	33 38.8	N 9 59.4	
11	181 35.1	348 04.7	S 5 46.9	316 46.2	S 17 36.8	71 49.1	N 22 53.3	100 58.1	N 22 26.4	195 31.3	S 8 19.8	298 33.9	S 25 44.7	55.0				
12	196 37.6	3 04.9	S 5 47.9	331 45.6	S 17 37.8	86 50.3	N 22 53.2	116 00.5	N 22 26.4	210 33.9	S 8 19.9	313 03.3	S 25 51.6	55.0	Fomalhaut	15 14.4	S 29 29.4	
13	211 40.0	18 05.1	S 5 48.8	346 45.1	S 17 38.7	101 51.4	N 22 53.1	131 03.0	N 22 26.4	225 36.5	S 8 19.9	327 32.7	S 25 58.3	55.0	Gacrux	171 52.6	S 57 15.0	
14	226 42.5	33 05.2	S 5 49.8	1 44.5	S 17 39.7	116 52.5	N 22 53.0	146 05.4	N 22 26.4	240 39.1	S 8 20.0	342 02.0	S 26 04.9	55.0	Gienah	175 44.2	S 17 40.6	
15	241 45.0	48 05.4	S 5 50.7	16 44.0	S 17 40.7	131 53.6	N 22 52.9	161 07.9	N 22 26.4	255 41.7	S 8 20.0	356 31.2	S 26 11.4	55.0	Hadar	148 37.0	S 60 29.6	
16	256 47.4	63 05.6	S 5 51.7	31 43.4	S 17 41.7	146 54.7	N 22 52.8	176 10.3	N 22 26.4	270 44.3	S 8 20.1	11 00.3	S 26 17.8	55.1	Hamal	327 51.2	N 23 34.8	
17	271 49.9	78 05.8	S 5 52.6	46 42.9	S 17 42.6	161 55.8	N 22 52.7	191 12.8	N 22 26.4	285 46.9	S 8 20.2	25 29.3	S 26 24.1	55.1				
18	286 52.3	93 05.9	S 5 53.6	61 42.3	S 17 43.6	176 57.0	N 22 52.6	206 15.2	N 22 26.4	300 49.5	S 8 20.2	39 58.3	S 26 30.2	55.1	Kaus aust.	83 32.8	S 34 22.5	
19	301 54.8	108 06.1	S 5 54.6	76 41.7	S 17 44.6	191 58.1	N 22 52.5	221 17.7	N 22 26.4	315 52.1	S 8 20.3	54 27.2	S 26 36.2	55.1	Kochab	137 20.6	N 74 03.4	
20	316 57.3	123 06.3	S 5 55.5	91 41.2	S 17 45.6	206 59.2	N 22 52.4	236 20.1	N 22 26.4	330 54.7	S 8 20.3	68 56.0	S 26 42.1	55.1	Markab	13 29.8	N 15 20.4	
21	331 59.7	138 06.5	S 5 56.5	106 40.6	S 17 46.5	222 00.3	N 22 52.3	251 22.6	N 22 26.4	345 57.3	S 8 20.4	83 24.7	S 26 47.8	55.2	Menkar	314 06.2	N 4 11.3	
22	347 02.2	153 06.6	S 5 57.4	121 40.1	S 17 47.5	237 01.4	N 22 52.2	266 25.0	N 22 26.4	1 00.0	S 8 20.4	97 53.3	S 26 53.5	55.2	Menkent	147 58.3	S 36 29.5	
23	2 04.7	168 06.8	S 5 58.4	136 39.5	S 17 48.5	252 02.6	N 22 52.1	281 27.5	N 22 26.4	16 02.6	S 8 20.5	112 21.8	S 26 58.9	55.2				
08 00	17 07.1	183 07.0	S 5 59.3	151 39.0	S 17 49.5	267 03.7	N 22 52.0	296 29.9	N 22 26.4	31 05.2	S 8 20.5	126 50.3	S 27 04.3	55.2	Miaplacidus	221 39.1	S 69 48.8	
01	32 09.6	198 07.2	S 6 00.3	166 38.4	S 17 50.4	282 04.8	N 22 51.8	311 32.4	N 22 26.4	46 07.8	S 8 20.6	141 18.7	S 27 09.5	55.2	Mirf			

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	SETTEMBRE	28					
d h	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "					
09 00	18 06.3	183 11.1 S	6 22.1	151 25.4 S	18 12.5 S	267 30.8 N	22 49.4 S	297 28.9 N	22 26.4 S	32 07.6 S	8 21.8 S	113 52.1 S	28 30.9 S	55.8	NOME	360 - AR	Dec.
01	33 08.7	198 11.3 S	6 23.1	166 24.8 S	18 13.5 S	282 31.9 N	22 49.3 S	312 31.4 N	22 26.4 S	47 10.2 S	8 21.9 S	128 18.9 S	28 32.6 S	55.8	Acamar	315 11.6 S	40 12.1 S
02	48 11.2	213 11.5 S	6 24.0	181 24.2 S	18 14.4 S	297 33.0 N	22 49.2 S	327 33.8 N	22 26.4 S	62 12.8 S	8 21.9 S	142 45.6 S	28 34.2 S	55.9	Achernar	335 19.8 S	57 06.5 S
03	63 13.7	228 11.6 S	6 25.0	196 23.7 S	18 15.4 S	312 34.2 N	22 49.0 S	342 36.3 N	22 26.4 S	77 15.4 S	8 22.0 S	157 12.3 S	28 35.7 S	55.9	AcruX	173 01.1 S	63 14.1 S
04	78 16.1	243 11.8 S	6 25.9	211 23.1 S	18 16.3 S	327 35.3 N	22 48.9 S	357 38.8 N	22 26.4 S	92 18.0 S	8 22.0 S	171 39.0 S	28 37.0 S	55.9	Adhara	255 06.1 S	29 00.0 S
05	93 18.6	258 12.0 S	6 26.9	226 22.5 S	18 17.3 S	342 36.4 N	22 48.8 S	12 41.2 N	22 26.4 S	107 20.6 S	8 22.1 S	186 05.6 S	28 38.1 S	56.0	Aldebaran	290 39.8 N	16 33.6 S
06	108 21.1	273 12.1 S	6 27.8	241 22.0 S	18 18.2 S	357 37.6 N	22 48.7 S	27 43.7 N	22 26.4 S	122 23.2 S	8 22.1 S	200 32.1 S	28 39.1 S	56.0			
07	123 23.5	288 12.3 S	6 28.8	256 21.4 S	18 19.2 S	12 38.7 N	22 48.6 S	42 46.2 N	22 26.4 S	137 25.8 S	8 22.2 S	214 58.6 S	28 40.0 S	56.0	Alioth	166 13.7 N	55 49.6 S
08	138 26.0	303 12.5 S	6 29.7	271 20.8 S	18 20.1 S	27 39.9 N	22 48.5 S	57 48.6 N	22 26.4 S	152 28.4 S	8 22.2 S	229 25.1 S	28 40.6 S	56.0	Alkaid	152 52.6 N	49 11.5 S
09	153 28.4	318 12.6 S	6 30.7	286 20.2 S	18 21.0 S	42 41.0 N	22 48.4 S	72 51.1 N	22 26.4 S	167 31.0 S	8 22.3 S	243 51.5 S	28 41.1 S	56.1	Alnair	27 32.8 S	46 50.5 S
10	168 30.9	333 12.8 S	6 31.6	301 19.7 S	18 22.0 S	57 42.1 N	22 48.3 S	87 53.5 N	22 26.4 S	182 33.6 S	8 22.4 S	258 17.8 S	28 41.5 S	56.1	Alnilam	275 37.9 S	1 11.0 S
11	183 33.4	348 13.0 S	6 32.6	316 19.1 S	18 22.9 S	72 43.3 N	22 48.2 S	102 56.0 N	22 26.4 S	197 36.2 S	8 22.4 S	272 44.2 S	28 41.7 S	56.1	Alphard	217 48.2 S	8 45.7 S
12	198 35.8	3 13.2 S	6 33.5	331 18.5 S	18 23.9 S	87 44.4 N	22 48.1 S	117 58.5 N	22 26.4 S	212 38.8 S	8 22.5 S	287 10.5 S	28 41.7 S	56.2			
13	213 38.3	18 13.3 S	6 34.5	346 17.9 S	18 24.8 S	102 45.6 N	22 48.0 S	133 00.9 N	22 26.4 S	227 41.4 S	8 22.5 S	301 36.7 S	28 41.6 S	56.2	Alphecca	126 04.2 N	26 38.1 S
14	228 40.8	33 13.5 S	6 35.4	1 17.3 S	18 25.8 S	117 46.7 N	22 47.8 S	148 03.4 N	22 26.4 S	242 44.0 S	8 22.6 S	316 03.0 S	28 41.3 S	56.2	Alpheratz	357 34.7 N	29 13.7 S
15	243 43.2	48 13.7 S	6 36.4	16 16.8 S	18 26.7 S	132 47.8 N	22 47.7 S	163 05.9 N	22 26.4 S	257 46.6 S	8 22.6 S	330 29.1 S	28 40.9 S	56.3	Altair	62 00.1 N	8 56.1 S
16	258 45.7	63 13.8 S	6 37.3	31 16.2 S	18 27.6 S	147 49.0 N	22 47.6 S	178 08.3 S	22 26.4 S	272 49.2 S	8 22.7 S	344 55.3 S	28 40.3 S	56.3	Ankaa	353 06.9 S	42 10.2 S
17	273 48.2	78 14.0 S	6 38.3	46 15.6 S	18 28.6 S	162 50.1 N	22 47.5 S	193 10.8 N	22 26.4 S	287 51.8 S	8 22.7 S	359 21.4 S	28 39.5 S	56.3	Antares	112 16.3 S	26 29.2 S
18	288 50.6	93 14.2 S	6 39.2	61 15.0 S	18 29.5 S	177 51.3 N	22 47.4 S	208 13.3 S	22 26.4 S	302 54.4 S	8 22.8 S	13 47.5 S	28 38.6 S	56.3			
19	303 53.1	108 14.3 S	6 40.1	76 14.5 S	18 30.4 S	192 52.4 N	22 47.3 S	223 15.8 N	22 26.4 S	317 57.0 S	8 22.8 S	28 13.6 S	28 37.5 S	56.4	Arcturus	145 48.4 N	19 03.4 S
20	318 55.6	123 14.5 S	6 41.1	91 13.9 S	18 31.4 S	207 53.6 N	22 47.2 S	238 18.2 N	22 26.4 S	332 59.6 S	8 22.9 S	42 39.7 S	28 36.2 S	56.4	Atria	107 10.9 S	69 04.5 S
21	333 58.0	138 14.7 S	6 42.0	106 13.3 S	18 32.3 S	222 54.7 N	22 47.1 S	253 20.7 N	22 26.4 S	348 02.2 S	8 22.9 S	57 05.7 S	28 34.8 S	56.4	Avior	234 15.2 S	59 35.0 S
22	349 00.5	153 14.8 S	6 43.0	121 12.7 S	18 33.3 S	237 55.8 N	22 47.0 S	268 23.2 N	22 26.4 S	3 04.8 S	8 23.0 S	71 31.7 S	28 33.2 S	56.5	Bellatrix	278 23.1 N	6 22.5 S
23	4 02.9	168 15.0 S	6 43.9	136 12.1 S	18 34.2 S	252 57.0 N	22 46.9 S	283 25.6 N	22 26.4 S	18 07.4 S	8 23.0 S	85 57.7 S	28 31.4 S	56.5	Betelgeuse	270 52.3 N	7 24.8 S
10 00	19 05.4	183 15.2 S	6 44.9	151 11.5 S	18 35.1 S	267 58.1 N	22 46.7 S	298 28.1 N	22 26.4 S	33 10.0 S	8 23.1 S	100 23.6 S	28 29.5 S	56.5	Canopus	263 52.5 S	52 42.1 S
01	34 07.9	198 15.3 S	6 45.8	166 11.0 S	18 36.1 S	282 59.3 N	22 46.6 S	313 30.6 N	22 26.4 S	48 12.6 S	8 23.1 S	114 49.6 S	28 27.4 S	56.6	Capella	280 22.1 N	46 01.3 S
02	49 10.3	213 15.5 S	6 46.8	181 10.4 S	18 37.0 S	298 00.4 N	22 46.5 S	328 33.0 N	22 26.4 S	63 15.2 S	8 23.2 S	129 15.5 S	28 25.2 S	56.6	Castor	245 57.5 N	31 50.0 S
03	64 12.8	228 15.6 S	6 47.7	196 09.8 S	18 37.9 S	313 01.6 N	22 46.4 S	343 35.5 N	22 26.4 S	78 17.8 S	8 23.2 S	143 41.4 S	28 22.8 S	56.6	Deneb	49 25.7 N	45 22.3 S
04	79 15.3	243 15.8 S	6 48.7	211 09.2 S	18 38.8 S	328 02.7 N	22 46.3 S	358 38.0 N	22 26.4 S	93 20.4 S	8 23.3 S	158 07.3 S	28 20.2 S	56.7	Denebola	182 25.5 N	14 26.2 S
05	94 17.7	258 16.0 S	6 49.6	226 08.6 S	18 39.8 S	343 03.9 N	22 46.2 S	13 40.5 S	22 26.4 S	108 23.0 S	8 23.3 S	172 33.2 S	28 17.5 S	56.7			
06	109 20.2	273 16.1 S	6 50.5	241 08.0 S	18 40.7 S	358 05.0 N	22 46.1 S	28 42.9 N	22 26.4 S	123 25.6 S	8 23.4 S	186 59.1 S	28 14.6 S	56.7	Diphda	348 47.2 S	17 50.9 S
07	124 22.7	288 16.3 S	6 51.5	256 07.5 S	18 41.6 S	13 06.2 N	22 46.0 S	43 45.4 N	22 26.4 S	138 28.2 S	8 23.4 S	201 25.0 S	28 11.5 S	56.8	Dubhe	193 41.9 N	61 37.0 S
08	139 25.1	303 16.5 S	6 52.4	271 06.9 S	18 42.6 S	28 07.3 N	22 45.9 S	58 47.9 N	22 26.4 S	153 30.8 S	8 23.5 S	215 50.8 S	28 08.2 S	56.8	Elnath	278 02.1 N	28 37.7 S
09	154 27.6	318 16.6 S	6 53.4	286 06.3 S	18 43.5 S	43 08.5 N	22 45.8 S	73 50.3 N	22 26.4 S	168 33.4 S	8 23.5 S	230 16.7 S	28 04.8 S	56.8	Etamin	90 42.3 N	51 29.4 S
10	169 30.1	333 16.8 S	6 54.3	301 05.7 S	18 44.4 S	58 09.6 N	22 45.6 S	88 52.8 N	22 26.4 S	183 36.0 S	8 23.6 S	244 42.6 S	28 01.3 S	56.9	Enif	33 38.8 N	9 59.4 S
11	184 32.5	348 17.0 S	6 55.3	316 05.1 S	18 45.3 S	73 10.8 N	22 45.5 S	103 55.3 N	22 26.4 S	198 38.6 S	8 23.6 S	259 08.4 S	27 57.5 S	56.9			
12	199 35.0	3 17.1 S	6 56.2	331 04.5 S	18 46.3 S	88 11.9 N	22 45.4 S	118 57.8 S	22 26.4 S	213 41.2 S	8 23.7 S	273 34.3 S	27 53.6 S	56.9	Fomalhaut	15 14.4 S	29 29.4 S
13	214 37.4	18 17.3 S	6 57.2	346 03.9 S	18 47.2 S	103 13.1 N	22 45.3 S	134 00.2 N	22 26.4 S	228 43.8 S	8 23.7 S	288 00.1 S	27 49.6 S	57.0	Gacrux	171 52.6 S	57 15.0 S
14	229 39.9	33 17.4 S	6 58.1	1 03.3 S	18 48.1 S	118 14.3 N	22 45.2 S	149 02.7 N	22 26.4 S	243 46.4 S	8 23.8 S	302 26.0 S	27 45.3 S	57.0	Gienah	175 44.2 S	17 40.6 S
15	244 42.4	48 17.6 S	6 59.0	16 02.7 S	18 49.0 S	133 15.4 N	22 45.1 S	164 05.2 N	22 26.4 S	258 49.0 S	8 23.8 S	316 51.9 S	27 40.9 S	57.0	Hadar	148 37.0 S	60 29.6 S
16	259 44.8	63 17.8 S	7 00.0	31 02.2 S	18 49.9 S	148 16.6 N	22 45.0 S	179 07.7 N	22 26.4 S	273 51.6 S	8 23.9 S	331 17.7 S	27 36.4 S	57.1	Hamal	327 51.2 N	23 34.8 S
17	274 47.3	78 17.9 S	7 00.9	46 01.6 S	18 50.9 S	163 17.7 N	22 44.9 S	194 10.2 N	22 26.4 S	288 54.2 S	8 24.0 S	345 43.6 S	27 31.6 S	57.1			
18	289 49.8	93 18.1 S	7 01.9	61 01.0 S	18 51.8 S	178 18.9 N	22 44.8 S	209 12.6 N	22 26.4 S	303 56.7 S	8 24.0 S	0 09.5 S	27 26.7 S	57.1	Kaus aust.	83 32.8 S	34 22.5 S
19	304 52.2	108 18.3 S	7 02.8	76 00.4 S	18 52.7 S	193 20.0 N	22 44.6 S	224 15.1 N	22 26.4 S	318 59.3 S	8 24.1 S	14 35.4 S	27 21.7 S	57.2	Kochab	137 20.6 N	74 03.4 S
20	319 54.7	123 18.4 S	7 03.8	90 59.8 S	18 53.6 S	208 21.2 N	22 44.5 S	239 17.6 N	22 26.4 S	334 01.9 S	8 24.1 S	29 01.3 S	27 16.4 S	57.2	Markab	13 29.8 N	15 20.4 S
21	334 57.2	138 18.6 S	7 04.7	105 59.2 S	18 54.5 S	223 22.3 N	22 44.4 S	254 20.1 N	22 26.4 S	349 04.5 S	8 24.2 S	43 27.2 S	27 11.0 S	57.2	Menkar	314 06.2 N	4 11.3 S
22	349 59.6	153 18.7 S	7 05.6	120 58.6 S	18 55.4 S	238 23.5 N	22 44.3 S	269 22.5 N	22 26.4 S	4 07.1 S	8 24.2 S	57 53.2 S	27 05.5 S	57.3	Menkent	147 58.3 S	36 29.5 S
23	5 02.1	168 18.9 S	7 06.6	135 58.0 S	18 56.4 S	253 24.7 N	22 44.2 S	284 25.0 N	22 26.4 S	19 09.7 S	8 24.3 S	72 19.1 S	26 59.8 S	57.3			
11 00	20 04.5	183 19.1 S	7 07.5	150 57.4 S	18 57.3 S	268 25.8 N	22 44.1 S	299 27.5 N	22 26.4 S	34 12.3 S	8 24.3 S	86 45.1 S	26 53.9 S	57.4	Miaplacidus	221 39.0 S	69 48.8 S
01	35 07.0	198 19.2 S	7 08.5	165 56.8 S	18 58.2 S	283 27.0 N	22 44.0 S	314 30.0 N	22 26.4 S	49 14.9 S	8 24.4 S	101 11.1 S	26 47.8 S	57.4	Mirfak	308 28.3 N	49

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	OTTOBRE	01
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'			
12 00	21 03.7	183 22.9	S 7 30.1	150 43.0	S 19 18.9	268 53.8	N 22 41.4	300 27.1	N 22 26.3	35 14.6	S 8 25.5	73 16.4	S 23 44.5	58.2	NOME	360	- AR	Dec.
01	36 06.2	198 23.0	S 7 31.0	165 42.4	S 19 19.8	283 55.0	N 22 41.3	315 29.6	N 22 26.3	50 17.2	S 8 25.5	87 43.2	S 23 34.7	58.3	Acamar	315 11.6	S 40 12.1	
02	51 08.6	213 23.2	S 7 31.9	180 41.8	S 19 20.7	298 56.2	N 22 41.1	330 32.1	N 22 26.3	65 19.8	S 8 25.6	102 10.0	S 23 24.7	58.3	Achernar	335 19.7	S 57 06.5	
03	66 11.1	228 23.3	S 7 32.9	195 41.2	S 19 21.6	313 57.3	N 22 41.0	345 34.6	N 22 26.3	80 22.4	S 8 25.6	116 36.8	S 23 14.6	58.4	Acruz	173 01.1	S 63 14.1	
04	81 13.5	243 23.5	S 7 33.8	210 40.6	S 19 22.5	328 58.5	N 22 40.9	0 37.1	N 22 26.3	95 24.9	S 8 25.7	131 03.7	S 23 04.3	58.4	Adhara	255 06.1	S 29 00.0	
05	96 16.0	258 23.6	S 7 34.7	225 39.9	S 19 23.4	343 59.7	N 22 40.8	15 39.6	N 22 26.3	110 27.5	S 8 25.7	145 30.6	S 22 53.9	58.4	Aldebaran	290 39.7	N 16 33.6	
06	111 18.5	273 23.8	S 7 35.7	240 39.3	S 19 24.3	359 00.9	N 22 40.7	30 42.1	N 22 26.3	125 30.1	S 8 25.8	159 57.6	S 22 43.3	58.5				
07	126 20.9	288 23.9	S 7 36.6	255 38.7	S 19 25.2	14 02.0	N 22 40.6	45 44.5	N 22 26.3	140 32.7	S 8 25.8	174 24.6	S 22 32.6	58.5	Alioth	166 13.7	N 55 49.6	
08	141 23.4	303 24.1	S 7 37.6	270 38.1	S 19 26.1	29 03.2	N 22 40.5	60 47.0	N 22 26.3	155 35.3	S 8 25.9	188 51.6	S 22 21.7	58.5	Alkaid	152 52.6	N 49 11.5	
09	156 25.9	318 24.3	S 7 38.5	285 37.5	S 19 26.9	44 04.4	N 22 40.3	75 49.5	N 22 26.3	170 37.9	S 8 25.9	203 18.7	S 22 10.7	58.6	Alnair	27 32.8	S 46 50.5	
10	171 28.3	333 24.4	S 7 39.4	300 36.9	S 19 27.8	59 05.6	N 22 40.2	90 52.0	N 22 26.3	185 40.5	S 8 26.0	217 45.8	S 21 59.6	58.6	Alnilam	275 37.9	S 1 11.0	
11	186 30.8	348 24.6	S 7 40.4	315 36.3	S 19 28.7	74 06.8	N 22 40.1	105 54.5	N 22 26.3	200 43.1	S 8 26.0	232 13.0	S 21 48.3	58.7	Alphard	217 48.2	S 8 45.7	
12	201 33.3	3 24.7	S 7 41.3	330 35.7	S 19 29.6	89 07.9	N 22 40.0	120 57.0	N 22 26.3	215 45.7	S 8 26.1	246 40.3	S 21 36.9	58.7				
13	216 35.7	18 24.9	S 7 42.2	345 35.1	S 19 30.5	104 09.1	N 22 39.9	135 59.5	N 22 26.3	230 48.3	S 8 26.1	261 07.5	S 21 25.3	58.7	Alphecca	126 04.2	N 26 38.1	
14	231 38.2	33 25.0	S 7 43.2	0 34.4	S 19 31.4	119 10.3	N 22 39.8	151 02.0	N 22 26.3	245 50.9	S 8 26.2	275 34.9	S 21 13.6	58.8	Alpheratz	357 34.7	N 29 13.7	
15	246 40.7	48 25.2	S 7 44.1	15 33.8	S 19 32.2	134 11.5	N 22 39.7	166 04.5	N 22 26.3	260 53.5	S 8 26.2	290 02.2	S 21 01.8	58.8	Altair	62 00.1	N 8 56.1	
16	261 43.1	63 25.3	S 7 45.0	30 33.2	S 19 33.1	149 12.7	N 22 39.5	181 07.0	N 22 26.3	275 56.0	S 8 26.3	304 29.6	S 20 49.8	58.9	Ankaa	353 06.9	S 42 10.2	
17	276 45.6	78 25.5	S 7 46.0	45 32.6	S 19 34.0	164 13.8	N 22 39.4	196 09.5	N 22 26.3	290 58.6	S 8 26.3	318 57.1	S 20 37.7	58.9	Antares	112 16.3	S 26 29.2	
18	291 48.0	93 25.6	S 7 46.9	60 32.0	S 19 34.9	179 15.0	N 22 39.3	211 12.0	N 22 26.3	306 01.2	S 8 26.4	333 24.6	S 20 25.5	58.9				
19	306 50.5	108 25.8	S 7 47.8	75 31.4	S 19 35.7	194 16.2	N 22 39.2	226 14.5	N 22 26.3	321 03.8	S 8 26.4	347 52.2	S 20 13.1	59.0	Arcturus	145 48.4	N 19 03.4	
20	321 53.0	123 25.9	S 7 48.8	90 30.8	S 19 36.6	209 17.4	N 22 39.1	241 17.0	N 22 26.3	336 06.4	S 8 26.5	2 19.7	S 20 00.6	59.0	Atria	107 11.0	S 69 04.5	
21	336 55.4	138 26.1	S 7 49.7	105 30.1	S 19 37.5	224 18.6	N 22 39.0	256 19.5	N 22 26.3	351 09.0	S 8 26.5	16 47.4	S 19 47.9	59.0	Avior	234 15.2	S 59 34.9	
22	351 57.9	153 26.2	S 7 50.6	120 29.5	S 19 38.4	239 19.8	N 22 38.8	271 22.0	N 22 26.3	6 11.6	S 8 26.6	31 15.1	S 19 35.2	59.1	Bellatrix	278 23.0	N 6 22.5	
23	7 00.4	168 26.4	S 7 51.6	135 28.9	S 19 39.2	254 20.9	N 22 38.7	286 24.5	N 22 26.3	21 14.2	S 8 26.6	45 42.8	S 19 22.3	59.1	Betelgeuse	270 52.3	N 7 24.8	
13 00	22 02.8	183 26.5	S 7 52.5	150 28.3	S 19 40.1	269 22.1	N 22 38.6	301 27.0	N 22 26.3	36 16.8	S 8 26.7	60 10.6	S 19 09.3	59.2	Canopus	263 52.5	S 52 42.1	
01	37 05.3	198 26.7	S 7 53.4	165 27.7	S 19 41.0	284 23.3	N 22 38.5	316 29.5	N 22 26.3	51 19.4	S 8 26.7	74 38.4	S 18 56.1	59.2	Capella	280 22.1	N 46 01.3	
02	52 07.8	213 26.8	S 7 54.4	180 27.0	S 19 41.9	299 24.5	N 22 38.4	331 31.9	N 22 26.3	66 21.9	S 8 26.8	89 06.3	S 18 42.8	59.2	Castor	245 57.5	N 31 50.0	
03	67 10.2	228 27.0	S 7 55.3	195 26.4	S 19 42.7	314 25.7	N 22 38.3	346 34.4	N 22 26.3	81 24.5	S 8 26.8	103 34.2	S 18 29.5	59.3	Deneb	49 25.7	N 45 22.3	
04	82 12.7	243 27.1	S 7 56.2	210 25.8	S 19 43.6	329 26.9	N 22 38.2	1 36.9	N 22 26.3	96 27.1	S 8 26.9	118 02.2	S 18 15.9	59.3	Denebola	182 25.5	N 14 26.2	
05	97 15.1	258 27.3	S 7 57.2	225 25.2	S 19 44.5	344 28.1	N 22 38.0	16 39.4	N 22 26.2	111 29.7	S 8 26.9	132 30.2	S 18 02.3	59.3				
06	112 17.6	273 27.4	S 7 58.1	240 24.6	S 19 45.3	359 29.2	N 22 37.9	31 41.9	N 22 26.2	126 32.3	S 8 26.9	146 58.2	S 17 48.5	59.4	Diphda	348 47.2	S 17 50.9	
07	127 20.1	288 27.6	S 7 59.0	255 23.9	S 19 46.2	14 30.4	N 22 37.8	46 44.4	N 22 26.2	141 34.9	S 8 27.0	161 26.3	S 17 34.7	59.4	Dubhe	193 41.8	N 61 37.0	
08	142 22.5	303 27.7	S 8 00.0	270 23.3	S 19 47.1	29 31.6	N 22 37.7	61 46.9	N 22 26.2	156 37.5	S 8 27.0	175 54.5	S 17 20.7	59.5	Elnath	278 02.1	N 28 37.7	
09	157 25.0	318 27.9	S 8 00.9	285 22.7	S 19 47.9	44 32.8	N 22 37.6	76 49.4	N 22 26.2	171 40.1	S 8 27.1	190 22.6	S 17 06.6	59.5	Etamin	90 42.4	N 51 29.4	
10	172 27.5	333 28.0	S 8 01.8	300 22.1	S 19 48.8	59 34.0	N 22 37.5	91 51.9	N 22 26.2	186 42.7	S 8 27.1	204 50.9	S 16 52.4	59.5	Enif	33 38.8	N 9 59.4	
11	187 29.9	348 28.2	S 8 02.8	315 21.4	S 19 49.7	74 35.2	N 22 37.3	106 54.5	N 22 26.2	201 45.2	S 8 27.2	219 19.1	S 16 38.0	59.6				
12	202 32.4	3 28.3	S 8 03.7	330 20.8	S 19 50.5	89 36.4	N 22 37.2	121 57.0	N 22 26.2	216 47.8	S 8 27.2	233 47.4	S 16 23.6	59.6	Fomalhaut	15 14.4	S 29 29.4	
13	217 34.9	18 28.5	S 8 04.6	345 20.2	S 19 51.4	104 37.6	N 22 37.1	136 59.5	N 22 26.2	231 50.4	S 8 27.3	248 15.8	S 16 09.0	59.6	Gacrux	171 52.6	S 57 15.0	
14	232 37.3	33 28.6	S 8 05.5	0 19.6	S 19 52.2	119 38.8	N 22 37.0	152 02.0	N 22 26.2	246 53.0	S 8 27.3	262 44.2	S 15 54.4	59.7	Gienah	175 44.2	S 17 40.6	
15	247 39.8	48 28.8	S 8 06.5	15 18.9	S 19 53.1	134 40.0	N 22 36.9	167 04.5	N 22 26.2	261 55.6	S 8 27.4	277 12.6	S 15 39.6	59.7	Hadar	148 37.0	S 60 29.6	
16	262 42.3	63 28.9	S 8 07.4	30 18.3	S 19 54.0	149 41.2	N 22 36.8	182 07.0	N 22 26.2	276 58.2	S 8 27.4	291 41.1	S 15 24.7	59.7	Hamal	327 51.2	N 23 34.8	
17	277 44.7	78 29.1	S 8 08.3	45 17.7	S 19 54.8	164 42.4	N 22 36.6	197 09.5	N 22 26.2	292 00.8	S 8 27.5	306 09.6	S 15 09.7	59.8				
18	292 47.2	93 29.2	S 8 09.3	60 17.1	S 19 55.7	179 43.6	N 22 36.5	212 12.0	N 22 26.2	307 03.4	S 8 27.5	320 38.1	S 14 54.6	59.8	Kaus aust.	83 32.8	S 34 22.5	
19	307 49.6	108 29.4	S 8 10.2	75 16.4	S 19 56.5	194 44.8	N 22 36.4	227 14.5	N 22 26.2	322 06.0	S 8 27.6	335 06.7	S 14 39.4	59.8	Kochab	137 20.6	N 74 03.4	
20	322 52.1	123 29.5	S 8 11.1	90 15.8	S 19 57.4	209 46.0	N 22 36.3	242 17.0	N 22 26.2	337 08.5	S 8 27.6	349 35.3	S 14 24.2	59.9	Markab	13 29.8	N 15 20.4	
21	337 54.6	138 29.6	S 8 12.0	105 15.2	S 19 58.2	224 47.2	N 22 36.2	257 19.5	N 22 26.2	352 11.1	S 8 27.7	4 04.0	S 14 08.8	59.9	Menkar	314 06.1	N 4 11.3	
22	352 57.0	153 29.8	S 8 13.0	120 14.5	S 19 59.1	239 48.4	N 22 36.1	272 22.0	N 22 26.2	7 13.7	S 8 27.7	18 32.7	S 13 53.3	59.9	Menkent	147 58.3	S 36 29.5	
23	7 59.5	168 29.9	S 8 13.9	135 13.9	S 19 59.9	254 49.5	N 22 35.9	287 24.5	N 22 26.2	22 16.3	S 8 27.7	33 01.4	S 13 37.7	60.0				
14 00	23 02.0	183 30.1	S 8 14.8	150 13.3	S 20 00.8	269 50.7	N 22 35.8	302 27.0	N 22 26.2	37 18.9	S 8 27.8	47 30.2	S 13 22.0	60.0	Miaplacidus	221 39.0	S 69 48.8	
01	38 04.4	198 30.2	S 8 15.8	165 12.7	S 20 01.6	284 51.9	N 22 35.7	317 29.5	N 22 26.2	52 21.5	S 8 27.8	61 59.0	S 13 06.3	60.0	Mirfak	308		

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	OTTOBRE	04
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
15 00	24 01.1	183 33.5	S 8 37.0	149 58.0	S 20 21.0	270 19.7	N 22 33.0	303 27.3	N 22 26.1	38 20.9	S 8 28.9	35 08.3	S 6 41.7	60.7	NOME	360	- AR	Dec.
01	39 03.6	198 33.6	S 8 38.0	164 57.4	S 20 21.8	285 20.9	N 22 32.9	318 29.8	N 22 26.1	53 23.5	S 8 28.9	49 37.6	S 6 24.2	60.8	Acamar	315 11.6	S 40 12.1	
02	54 06.0	213 33.8	S 8 38.9	179 56.7	S 20 22.6	300 22.1	N 22 32.8	333 32.3	N 22 26.1	68 26.1	S 8 29.0	64 06.9	S 6 06.6	60.8	Achernar	335 19.7	S 57 06.5	
03	69 08.5	228 33.9	S 8 39.8	194 56.1	S 20 23.4	315 23.3	N 22 32.7	348 34.8	N 22 26.1	83 28.7	S 8 29.0	78 36.3	S 5 49.0	60.8	Acruux	173 01.1	S 63 14.1	
04	84 11.0	243 34.1	S 8 40.7	209 55.4	S 20 24.3	330 24.6	N 22 32.5	3 37.3	N 22 26.1	98 31.3	S 8 29.1	93 05.6	S 5 31.3	60.8	Adhara	255 06.1	S 29 00.0	
05	99 13.4	258 34.2	S 8 41.7	224 54.8	S 20 25.1	345 25.8	N 22 32.4	18 39.9	N 22 26.1	113 33.9	S 8 29.1	107 34.9	S 5 13.6	60.9	Aldebaran	290 39.7	N 16 33.6	
06	114 15.9	273 34.3	S 8 42.6	239 54.1	S 20 25.9	0 27.0	N 22 32.3	33 42.4	N 22 26.1	128 36.4	S 8 29.2	122 04.3	S 4 55.9	60.9				
07	129 18.4	288 34.5	S 8 43.5	254 53.5	S 20 26.7	15 28.2	N 22 32.2	48 44.9	N 22 26.1	143 39.0	S 8 29.2	136 33.6	S 4 38.1	60.9	Alioth	166 13.7	N 55 49.6	
08	144 20.8	303 34.6	S 8 44.4	269 52.9	S 20 27.6	30 29.4	N 22 32.1	63 47.4	N 22 26.1	158 41.6	S 8 29.2	151 03.0	S 4 20.3	60.9	Alkaid	152 52.6	N 49 11.5	
09	159 23.3	318 34.7	S 8 45.3	284 52.2	S 20 28.4	45 30.6	N 22 32.0	78 49.9	N 22 26.1	173 44.2	S 8 29.3	165 32.3	S 4 02.4	60.9	Alnair	27 32.8	S 46 50.5	
10	174 25.7	333 34.9	S 8 46.3	299 51.6	S 20 29.2	60 31.9	N 22 31.8	93 52.5	N 22 26.1	188 46.8	S 8 29.3	180 01.6	S 3 44.5	61.0	Alnilam	275 37.9	S 1 11.0	
11	189 28.2	348 35.0	S 8 47.2	314 50.9	S 20 30.0	75 33.1	N 22 31.7	108 55.0	N 22 26.1	203 49.4	S 8 29.4	194 31.0	S 3 26.6	61.0	Alphard	217 48.2	S 8 45.7	
12	204 30.7	3 35.2	S 8 48.1	329 50.3	S 20 30.9	90 34.3	N 22 31.6	123 57.5	N 22 26.1	218 51.9	S 8 29.4	209 00.3	S 3 08.6	61.0				
13	219 33.1	18 35.3	S 8 49.0	344 49.6	S 20 31.7	105 35.5	N 22 31.5	139 00.0	N 22 26.1	233 54.5	S 8 29.5	223 29.7	S 2 50.6	61.0	Alphecca	126 04.2	N 26 38.1	
14	234 35.6	33 35.4	S 8 49.9	359 49.0	S 20 32.5	120 36.7	N 22 31.4	154 02.5	N 22 26.1	248 57.1	S 8 29.5	237 59.0	S 2 32.6	61.0	Alpheratz	357 34.7	N 29 13.8	
15	249 38.1	48 35.6	S 8 50.9	14 48.3	S 20 33.3	135 38.0	N 22 31.2	169 05.1	N 22 26.1	263 59.7	S 8 29.6	252 28.3	S 2 14.5	61.1	Altair	62 00.1	N 8 56.1	
16	264 40.5	63 35.7	S 8 51.8	29 47.7	S 20 34.1	150 39.2	N 22 31.1	184 07.6	N 22 26.1	279 02.3	S 8 29.6	266 57.6	S 1 56.5	61.1	Ankaa	353 06.9	S 42 10.2	
17	279 43.0	78 35.8	S 8 52.7	44 47.0	S 20 34.9	165 40.4	N 22 31.0	199 10.1	N 22 26.1	294 04.8	S 8 29.6	281 26.9	S 1 38.4	61.1	Antares	112 16.3	S 26 29.2	
18	294 45.5	93 36.0	S 8 53.6	59 46.4	S 20 35.7	180 41.6	N 22 30.9	214 12.6	N 22 26.0	309 07.4	S 8 29.7	295 56.2	S 1 20.2	61.1				
19	309 47.9	108 36.1	S 8 54.5	74 45.7	S 20 36.6	195 42.8	N 22 30.8	229 15.1	N 22 26.0	324 10.0	S 8 29.7	310 25.5	S 1 02.1	61.1	Arcturus	145 48.4	N 19 03.4	
20	324 50.4	123 36.2	S 8 55.5	89 45.1	S 20 37.4	210 44.1	N 22 30.6	244 17.7	N 22 26.0	339 12.6	S 8 29.8	324 54.7	S 0 43.9	61.2	Atria	107 11.0	S 69 04.5	
21	339 52.8	138 36.4	S 8 56.4	104 44.4	S 20 38.2	225 45.3	N 22 30.5	259 20.2	N 22 26.0	354 15.2	S 8 29.8	339 24.0	S 0 25.8	61.2	Avior	234 15.1	S 59 34.9	
22	354 55.3	153 36.5	S 8 57.3	119 43.8	S 20 39.0	240 46.5	N 22 30.4	274 22.7	N 22 26.0	9 17.8	S 8 29.9	353 53.2	S 0 07.6	61.2	Bellatrix	278 23.0	N 6 22.5	
23	9 57.8	168 36.6	S 8 58.2	134 43.1	S 20 39.8	255 47.7	N 22 30.3	289 25.2	N 22 26.0	24 20.3	S 8 29.9	8 22.4	N 0 10.6	61.2	Betelgeuse	270 52.3	N 7 24.8	
16 00	25 00.2	183 36.8	S 8 59.1	149 42.4	S 20 40.6	270 49.0	N 22 30.2	304 27.8	N 22 26.0	39 22.9	S 8 30.0	22 51.6	N 0 28.8	61.2	Canopus	263 52.5	S 52 42.1	
01	40 02.7	198 36.9	S 9 00.1	164 41.8	S 20 41.4	285 50.2	N 22 30.1	319 30.3	N 22 26.0	54 25.5	S 8 30.0	37 20.8	N 0 47.0	61.2	Capella	280 22.1	N 46 01.3	
02	55 05.2	213 37.0	S 9 01.0	179 41.1	S 20 42.2	300 51.4	N 22 29.9	334 32.8	N 22 26.0	69 28.1	S 8 30.0	51 49.9	N 1 05.2	61.2	Castor	245 57.4	N 31 50.0	
03	70 07.6	228 37.2	S 9 01.9	194 40.5	S 20 43.0	315 52.7	N 22 29.8	349 35.3	N 22 26.0	84 30.7	S 8 30.1	66 19.1	N 1 23.4	61.3	Deneb	49 25.8	N 45 22.3	
04	85 10.1	243 37.3	S 9 02.8	209 39.8	S 20 43.8	330 53.9	N 22 29.7	4 37.9	N 22 26.0	99 33.2	S 8 30.1	80 48.2	N 1 41.7	61.3	Denebola	182 25.5	N 14 26.1	
05	100 12.6	258 37.4	S 9 03.7	224 39.2	S 20 44.6	345 55.1	N 22 29.6	19 40.4	N 22 26.0	114 35.8	S 8 30.2	95 17.3	N 1 59.9	61.3				
06	115 15.0	273 37.6	S 9 04.6	239 38.5	S 20 45.4	0 56.3	N 22 29.5	34 42.9	N 22 26.0	129 38.4	S 8 30.2	109 46.3	N 2 18.1	61.3	Diphda	348 47.2	S 17 50.9	
07	130 17.5	288 37.7	S 9 05.6	254 37.9	S 20 46.2	15 57.6	N 22 29.3	49 45.4	N 22 26.0	144 41.0	S 8 30.3	124 15.3	N 2 36.3	61.3	Dubhe	193 41.8	N 61 37.0	
08	145 20.0	303 37.8	S 9 06.5	269 37.2	S 20 47.0	30 58.8	N 22 29.2	64 48.0	N 22 26.0	159 43.6	S 8 30.3	138 44.3	N 2 54.5	61.3	Elnath	278 02.0	N 28 37.7	
09	160 22.4	318 38.0	S 9 07.4	284 36.5	S 20 47.8	46 00.0	N 22 29.1	79 50.5	N 22 26.0	174 46.1	S 8 30.3	153 13.3	N 3 12.7	61.3	Etamin	90 42.4	N 51 29.4	
10	175 24.9	333 38.1	S 9 08.3	299 35.9	S 20 48.6	61 01.3	N 22 29.0	94 53.0	N 22 26.0	189 48.7	S 8 30.4	167 42.2	N 3 30.8	61.3	Enif	33 38.8	N 9 59.4	
11	190 27.3	348 38.2	S 9 09.2	314 35.2	S 20 49.4	76 02.5	N 22 28.9	109 55.6	N 22 26.0	204 51.3	S 8 30.4	182 11.1	N 3 49.0	61.3				
12	205 29.8	3 38.4	S 9 10.1	329 34.6	S 20 50.2	91 03.7	N 22 28.7	124 58.1	N 22 26.0	219 53.9	S 8 30.5	196 40.0	N 4 07.1	61.3	Fomalhaut	15 14.4	S 29 29.4	
13	220 32.3	18 38.5	S 9 11.0	344 33.9	S 20 51.0	106 05.0	N 22 28.6	140 00.6	N 22 26.0	234 56.5	S 8 30.5	211 08.9	N 4 25.3	61.4	Gacrux	171 52.6	S 57 15.0	
14	235 34.7	33 38.6	S 9 12.0	359 33.2	S 20 51.8	121 06.2	N 22 28.5	155 03.1	N 22 26.0	249 59.0	S 8 30.6	225 37.7	N 4 43.4	61.4	Gienah	175 44.2	S 17 40.6	
15	250 37.2	48 38.8	S 9 12.9	14 32.6	S 20 52.6	136 07.4	N 22 28.4	170 05.7	N 22 26.0	265 01.6	S 8 30.6	240 06.4	N 5 01.4	61.4	Hadar	148 37.0	S 60 29.6	
16	265 39.7	63 38.9	S 9 13.8	29 31.9	S 20 53.4	151 08.7	N 22 28.3	185 08.2	N 22 26.0	280 04.2	S 8 30.6	254 35.1	N 5 19.5	61.4	Hamal	327 51.2	N 23 34.8	
17	280 42.1	78 39.0	S 9 14.7	44 31.2	S 20 54.2	166 09.9	N 22 28.1	200 10.7	N 22 26.0	295 06.8	S 8 30.7	269 03.8	N 5 37.5	61.4				
18	295 44.6	93 39.1	S 9 15.6	59 30.6	S 20 55.0	181 11.2	N 22 28.0	215 13.3	N 22 25.9	310 09.3	S 8 30.7	283 32.5	N 5 55.5	61.4	Kaus aust.	83 32.9	S 34 22.5	
19	310 47.1	108 39.3	S 9 16.5	74 29.9	S 20 55.8	196 12.4	N 22 27.9	230 15.8	N 22 25.9	325 11.9	S 8 30.8	298 01.1	N 6 13.5	61.4	Kochab	137 20.7	N 74 03.3	
20	325 49.5	123 39.4	S 9 17.4	89 29.3	S 20 56.6	211 13.6	N 22 27.8	245 18.3	N 22 25.9	340 14.5	S 8 30.8	312 29.6	N 6 31.4	61.4	Markab	13 29.8	N 15 20.4	
21	340 52.0	138 39.5	S 9 18.4	104 28.6	S 20 57.4	226 14.9	N 22 27.7	260 20.9	N 22 25.9	355 17.1	S 8 30.9	326 58.1	N 6 49.3	61.4	Menkar	314 06.1	N 4 11.3	
22	355 54.4	153 39.7	S 9 19.3	119 27.9	S 20 58.1	241 16.1	N 22 27.5	275 23.4	N 22 25.9	10 19.7	S 8 30.9	341 26.6	N 7 07.2	61.4	Menkent	147 58.3	S 36 29.5	
23	10 56.9	168 39.8	S 9 20.2	134 27.3	S 20 58.9	256 17.3	N 22 27.4	290 25.9	N 22 25.9	25 22.2	S 8 30.9	355 55.0	N 7 25.0	61.4				
17 00	25 59.4	183 39.9	S 9 21.1	149 26.6	S 20 59.7	271 18.6	N 22 27.3	305 28.5	N 22 25.9	40 24.8	S 8 31.0	10 23.4	N 7 42.8	61.4	Miaplacidus	221 39.0	S 69 48.8	
01	41 01.8	198 40.0	S 9 22.0	164 25.9	S 21 00.5	286 19.8	N 22 27.2	320 31.0	N 22 25.9	55 27.4	S 8 31.0	24 51.7	N 8 00.5	61.4	Mirfak	308 28.2	N 49 56.9	
02																		

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	OTTOBRE	07
18 00	26 58.5	183 42.9	S 9 42.9	149 10.5	S 21 18.3	271 48.5	N 22 24.4	306 29.4	N 22 25.8	41 26.6	S 8 32.0	357 27.4	N 14 31.0	61.2	NOME	360	- AR	Dec.
01	42 01.0	198 43.0	S 9 43.8	164 09.8	S 21 19.0	286 49.8	N 22 24.3	321 31.9	N 22 25.8	56 29.2	S 8 32.0	11 54.3	N 14 47.0	61.2	Acamar	315 11.6	S 40 12.1	
02	57 03.4	213 43.1	S 9 44.7	179 09.1	S 21 19.8	301 51.0	N 22 24.2	336 34.5	N 22 25.8	71 31.8	S 8 32.1	26 21.1	N 15 02.9	61.2	Achernar	335 19.7	S 57 06.5	
03	72 05.9	228 43.3	S 9 45.6	194 08.4	S 21 20.5	316 52.3	N 22 24.1	351 37.0	N 22 25.8	86 34.4	S 8 32.1	40 47.8	N 15 18.7	61.2	Acruz	173 01.1	S 63 14.1	
04	87 08.4	243 43.4	S 9 46.5	209 07.8	S 21 21.3	331 53.6	N 22 23.9	6 39.6	N 22 25.8	101 36.9	S 8 32.1	55 14.5	N 15 34.4	61.2	Adhara	255 06.1	S 29 00.0	
05	102 10.8	258 43.5	S 9 47.4	224 07.1	S 21 22.1	346 54.8	N 22 23.8	21 42.1	N 22 25.8	116 39.5	S 8 32.2	69 41.1	N 15 50.0	61.2	Aldebaran	290 39.7	N 16 33.6	
06	117 13.3	273 43.6	S 9 48.4	239 06.4	S 21 22.8	1 56.1	N 22 23.7	36 44.6	N 22 25.8	131 42.1	S 8 32.2	84 07.6	N 16 05.5	61.1				
07	132 15.8	288 43.7	S 9 49.3	254 05.7	S 21 23.6	16 57.3	N 22 23.6	51 47.2	N 22 25.8	146 44.7	S 8 32.3	98 34.0	N 16 20.9	61.1	Alioth	166 13.7	N 55 49.6	
08	147 18.2	303 43.9	S 9 50.2	269 05.0	S 21 24.3	31 58.6	N 22 23.5	66 49.7	N 22 25.8	161 47.2	S 8 32.3	113 00.4	N 16 36.2	61.1	Alkaid	152 52.6	N 49 11.5	
09	162 20.7	318 44.0	S 9 51.1	284 04.4	S 21 25.1	46 59.9	N 22 23.3	81 52.3	N 22 25.8	176 49.8	S 8 32.3	127 26.7	N 16 51.3	61.1	Alnair	27 32.8	S 46 50.6	
10	177 23.2	333 44.1	S 9 52.0	299 03.7	S 21 25.8	62 01.1	N 22 23.2	96 54.8	N 22 25.8	191 52.4	S 8 32.4	141 52.9	N 17 06.4	61.1	Alnilam	275 37.9	S 1 11.0	
11	192 25.6	348 44.2	S 9 52.9	314 03.0	S 21 26.6	77 02.4	N 22 23.1	111 57.4	N 22 25.8	206 55.0	S 8 32.4	156 19.0	N 17 21.3	61.1	Alphard	217 48.2	S 8 45.8	
12	207 28.1	3 44.3	S 9 53.8	329 02.3	S 21 27.3	92 03.6	N 22 23.0	126 59.0	N 22 25.7	221 57.5	S 8 32.5	170 45.1	N 17 36.1	61.0				
13	222 30.5	18 44.4	S 9 54.7	344 01.6	S 21 28.1	107 04.9	N 22 22.9	142 02.5	N 22 25.7	237 00.1	S 8 32.5	185 11.1	N 17 50.8	61.0	Alphecca	126 04.2	N 26 38.0	
14	237 33.0	33 44.6	S 9 55.6	359 00.9	S 21 28.8	122 06.2	N 22 22.7	157 05.0	N 22 25.7	252 02.7	S 8 32.5	199 37.0	N 18 05.3	61.0	Alpheratz	357 34.7	N 29 13.8	
15	252 35.5	48 44.7	S 9 56.5	14 00.3	S 21 29.6	137 07.4	N 22 22.6	172 07.6	N 22 25.7	267 05.3	S 8 32.6	214 02.8	N 18 19.8	61.0	Altair	62 00.1	N 8 56.2	
16	267 37.9	63 44.8	S 9 57.4	28 59.6	S 21 30.3	152 08.7	N 22 22.5	187 10.1	N 22 25.7	282 07.8	S 8 32.6	228 28.6	N 18 34.1	60.9	Ankaa	353 06.9	S 42 10.2	
17	282 40.4	78 44.9	S 9 58.3	43 58.9	S 21 31.1	167 10.0	N 22 22.4	202 12.7	N 22 25.7	297 10.4	S 8 32.7	242 54.3	N 18 48.3	60.9	Antares	112 16.3	S 26 29.2	
18	297 42.9	93 45.0	S 9 59.2	58 58.2	S 21 31.8	182 11.2	N 22 22.3	217 15.2	N 22 25.7	312 13.0	S 8 32.7	257 19.9	N 19 02.3	60.9				
19	312 45.3	108 45.1	S 10 00.1	73 57.5	S 21 32.6	197 12.5	N 22 22.1	232 17.8	N 22 25.7	327 15.5	S 8 32.7	271 45.5	N 19 16.2	60.9	Arcturus	145 48.4	N 19 03.3	
20	327 47.8	123 45.3	S 10 01.0	88 56.8	S 21 33.3	212 13.8	N 22 22.0	247 20.3	N 22 25.7	342 18.1	S 8 32.8	286 11.0	N 19 30.0	60.9	Atria	107 11.1	S 69 04.5	
21	342 50.3	138 45.4	S 10 01.9	103 56.1	S 21 34.0	227 15.0	N 22 21.9	262 22.9	N 22 25.7	357 20.7	S 8 32.8	300 36.4	N 19 43.6	60.8	Avior	234 15.1	S 59 34.9	
22	357 52.7	153 45.5	S 10 02.8	118 55.5	S 21 34.8	242 16.3	N 22 21.8	277 25.4	N 22 25.7	12 23.3	S 8 32.9	315 01.7	N 19 57.1	60.8	Bellatrix	278 23.0	N 6 22.5	
23	12 55.2	168 45.6	S 10 03.7	133 54.8	S 21 35.5	257 17.6	N 22 21.7	292 28.0	N 22 25.7	27 25.8	S 8 32.9	329 26.9	N 20 10.5	60.8	Betelgeuse	270 52.3	N 7 24.8	
19 00	27 57.7	183 45.7	S 10 04.6	148 54.1	S 21 36.3	272 18.8	N 22 21.5	307 30.5	N 22 25.7	42 28.4	S 8 32.9	343 52.1	N 20 23.7	60.8	Canopus	263 52.4	S 52 42.1	
01	43 00.1	198 45.8	S 10 05.5	163 53.4	S 21 37.0	287 20.1	N 22 21.4	322 33.1	N 22 25.7	57 31.0	S 8 33.0	358 17.2	N 20 36.8	60.7	Capella	280 22.0	N 46 01.3	
02	58 02.6	213 46.0	S 10 06.4	178 52.7	S 21 37.7	302 21.4	N 22 21.3	337 35.6	N 22 25.7	72 33.5	S 8 33.0	12 42.3	N 20 49.7	60.7	Castor	245 57.4	N 31 50.0	
03	73 05.0	228 46.1	S 10 07.3	193 52.0	S 21 38.5	317 22.6	N 22 21.2	352 38.2	N 22 25.7	87 36.1	S 8 33.0	27 07.2	N 21 02.5	60.7	Deneb	49 25.8	N 45 22.4	
04	88 07.5	243 46.2	S 10 08.2	208 51.3	S 21 39.2	332 23.9	N 22 21.0	7 40.7	N 22 25.7	102 38.7	S 8 33.1	41 32.1	N 21 15.1	60.7	Denebola	182 25.5	N 44 26.1	
05	103 10.0	258 46.3	S 10 09.1	223 50.6	S 21 39.9	347 25.2	N 22 20.9	22 43.3	N 22 25.7	117 41.3	S 8 33.1	55 56.9	N 21 27.6	60.6				
06	118 12.4	273 46.4	S 10 10.0	238 49.9	S 21 40.7	2 26.5	N 22 20.8	37 45.8	N 22 25.6	132 43.8	S 8 33.2	70 21.7	N 21 39.9	60.6	Diphda	348 47.2	S 17 50.9	
07	133 14.9	288 46.5	S 10 10.9	253 49.2	S 21 41.4	17 27.7	N 22 20.7	52 48.4	N 22 25.6	147 46.4	S 8 33.2	84 46.4	N 21 52.1	60.6	Dubhe	193 41.8	N 61 37.0	
08	148 17.4	303 46.6	S 10 11.8	268 48.5	S 21 42.1	32 29.0	N 22 20.6	67 50.9	N 22 25.6	162 49.0	S 8 33.2	99 11.0	N 22 04.1	60.5	Elnath	278 02.0	N 28 37.7	
09	163 19.8	318 46.7	S 10 12.7	283 47.9	S 21 42.9	47 30.3	N 22 20.4	82 53.5	N 22 25.6	177 51.5	S 8 33.3	113 35.5	N 22 16.0	60.5	Etamin	90 42.4	N 51 29.4	
10	178 22.3	333 46.9	S 10 13.6	298 47.2	S 21 43.6	62 31.5	N 22 20.3	97 56.0	N 22 25.6	192 54.1	S 8 33.3	128 00.0	N 22 27.7	60.5	Enif	33 38.8	N 9 59.4	
11	193 24.8	348 47.0	S 10 14.5	313 46.5	S 21 44.3	77 32.8	N 22 20.2	112 58.6	N 22 25.6	207 56.7	S 8 33.4	142 24.4	N 22 39.2	60.5				
12	208 27.2	3 47.1	S 10 15.4	328 45.8	S 21 45.1	92 34.1	N 22 20.1	128 01.2	N 22 25.6	222 59.2	S 8 33.4	156 48.8	N 22 50.6	60.4	Fomalhaut	15 14.4	S 29 29.5	
13	223 29.7	18 47.2	S 10 16.3	343 45.1	S 21 45.8	107 35.4	N 22 20.0	143 03.7	N 22 25.6	238 01.8	S 8 33.4	171 13.0	N 23 01.8	60.4	Gacrux	171 52.5	S 57 15.0	
14	238 32.2	33 47.3	S 10 17.2	358 44.4	S 21 46.5	122 36.7	N 22 19.8	158 06.3	N 22 25.6	253 04.4	S 8 33.5	185 37.3	N 23 12.9	60.4	Gienah	175 44.2	S 17 40.6	
15	253 34.6	48 47.4	S 10 18.1	13 43.7	S 21 47.2	137 37.9	N 22 19.7	173 08.8	N 22 25.6	268 07.0	S 8 33.5	200 01.4	N 23 23.7	60.3	Hadar	148 37.0	S 60 29.5	
16	268 37.1	63 47.5	S 10 19.0	28 43.0	S 21 47.9	152 39.2	N 22 19.6	188 11.4	N 22 25.6	283 09.5	S 8 33.6	214 25.5	N 23 34.5	60.3	Hamal	327 51.1	N 23 34.9	
17	283 39.5	78 47.6	S 10 19.9	43 42.3	S 21 48.7	167 40.5	N 22 19.5	203 13.9	N 22 25.6	298 12.1	S 8 33.6	228 49.5	N 23 45.0	60.3				
18	298 42.0	93 47.7	S 10 20.8	58 41.6	S 21 49.4	182 41.8	N 22 19.4	218 16.5	N 22 25.6	313 14.7	S 8 33.6	243 13.5	N 23 55.4	60.2	Kaus aust.	83 32.9	S 34 22.5	
19	313 44.5	108 47.9	S 10 21.7	73 40.9	S 21 50.1	197 43.1	N 22 19.2	233 19.1	N 22 25.6	328 17.2	S 8 33.7	257 37.4	N 24 05.6	60.2	Kochab	137 20.7	N 74 03.3	
20	328 46.9	123 48.0	S 10 22.6	88 40.2	S 21 50.8	212 44.3	N 22 19.1	248 21.6	N 22 25.6	343 19.8	S 8 33.7	272 01.3	N 24 15.6	60.2	Markab	13 29.9	N 15 20.4	
21	343 49.4	138 48.1	S 10 23.5	103 39.5	S 21 51.5	227 45.6	N 22 19.0	263 24.2	N 22 25.6	358 22.4	S 8 33.7	286 25.1	N 24 25.5	60.1	Menkar	314 06.1	N 4 11.3	
22	358 51.9	153 48.2	S 10 24.4	118 38.8	S 21 52.3	242 46.9	N 22 18.9	278 26.7	N 22 25.6	13 24.9	S 8 33.8	300 48.8	N 24 35.1	60.1	Menkent	147 58.3	S 36 29.5	
23	13 54.3	168 48.3	S 10 25.2	133 38.1	S 21 53.0	257 48.2	N 22 18.7	293 29.3	N 22 25.5	28 27.5	S 8 33.8	315 12.5	N 24 44.6	60.1				
20 00	28 56.8	183 48.4	S 10 26.1	148 37.4	S 21 53.7	272 49.5	N 22 18.6	308 31.9	N 22 25.5	43 30.1	S 8 33.9	329 36.2	N 24 54.0	60.0	Miaplacidus	221 38.9	S 69 48.8	
01	43 59.3	198 48.5	S 10 27.0	163 36.7	S 21 54.4	287 50.8	N 22 18.5	323 34.4	N 22 25.5	58 32.6	S 8 33.9	343 59.8	N 25 03.1	60.0	Mirfak	308 28.2	N 49 56.9	
02	59 01.7	213 48.6	S 10 27.															

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	OTTOBRE	10
d h	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "
21 00	29 55.9	183 50.9 S 10 47.5	148 20.5 S 22 10.5	273 20.5 N 22 15.7	309 33.4 N 22 25.4	44 31.7 S 8 34.7	314 53.0 N 27 42.1	59.1	NOME	360 - AR	Dec.	
01	44 58.4	198 51.0 S 10 48.4	163 19.7 S 22 11.2	288 21.8 N 22 15.6	324 36.0 N 22 25.4	59 34.2 S 8 34.8	329 16.0 N 27 46.7	59.1	Acamar	315 11.5	S 40 12.1	
02	60 00.9	213 51.1 S 10 49.3	178 19.0 S 22 11.9	303 23.1 N 22 15.5	339 38.6 N 22 25.4	74 36.8 S 8 34.8	343 38.9 N 27 51.1	59.1	Achernar	335 19.7	S 57 06.5	
03	75 03.3	228 51.2 S 10 50.2	193 18.3 S 22 12.6	318 24.4 N 22 15.3	354 41.1 N 22 25.4	89 39.4 S 8 34.8	358 01.9 N 27 55.3	59.0	AcruX	173 01.1	S 63 14.1	
04	90 05.8	243 51.3 S 10 51.1	208 17.6 S 22 13.3	333 25.7 N 22 15.2	9 43.7 N 22 25.4	104 41.9 S 8 34.9	12 24.9 N 27 59.4	59.0	Adhara	255 06.0	S 29 00.0	
05	105 08.3	258 51.4 S 10 52.0	223 16.9 S 22 14.0	348 27.0 N 22 15.1	24 46.3 N 22 25.4	119 44.5 S 8 34.9	26 47.9 N 28 03.2	58.9	Aldebaran	290 39.7	N 16 33.6	
06	120 10.7	273 51.5 S 10 52.9	238 16.2 S 22 14.7	3 28.3 N 22 15.0	39 48.8 N 22 25.4	134 47.1 S 8 35.0	41 10.9 N 28 06.9	58.9				
07	135 13.2	288 51.6 S 10 53.7	253 15.5 S 22 15.3	18 29.6 N 22 14.9	54 51.4 N 22 25.3	149 49.6 S 8 35.0	55 33.9 N 28 10.3	58.9	Alioth	166 13.7	N 55 49.6	
08	150 15.6	303 51.7 S 10 54.6	268 14.8 S 22 16.0	33 30.9 N 22 14.7	69 54.0 N 22 25.3	164 52.2 S 8 35.0	69 57.0 N 28 13.6	58.8	Alkaid	152 52.6	N 49 11.5	
09	165 18.1	318 51.8 S 10 55.5	283 14.0 S 22 16.7	48 32.2 N 22 14.6	84 56.6 N 22 25.3	179 54.8 S 8 35.1	84 20.0 N 28 16.7	58.8	Alnair	27 32.8	S 46 50.6	
10	180 20.6	333 51.9 S 10 56.4	298 13.3 S 22 17.4	63 33.5 N 22 14.5	99 59.1 N 22 25.3	194 57.3 S 8 35.1	98 43.1 N 28 19.5	58.7	Alnilam	275 37.8	S 1 11.0	
11	195 23.0	348 52.0 S 10 57.3	313 12.6 S 22 18.1	78 34.8 N 22 14.4	115 01.7 N 22 25.3	209 59.9 S 8 35.1	113 06.2 N 28 22.2	58.7	Alphard	217 48.2	S 8 45.8	
12	210 25.5	3 52.1 S 10 58.2	328 11.9 S 22 18.7	93 36.1 N 22 14.3	130 04.3 N 22 25.3	225 02.4 S 8 35.2	127 29.3 N 28 24.7	58.6				
13	225 28.0	18 52.2 S 10 59.0	343 11.2 S 22 19.4	108 37.4 N 22 14.1	145 06.8 N 22 25.3	240 05.0 S 8 35.2	141 52.4 N 28 27.0	58.6	Alphecca	126 04.2	N 26 38.0	
14	240 30.4	33 52.3 S 10 59.9	358 10.5 S 22 20.1	123 38.7 N 22 14.0	160 09.4 N 22 25.3	255 07.6 S 8 35.2	156 15.6 N 28 29.1	58.6	Alpheratz	357 34.7	N 29 13.8	
15	255 32.9	48 52.4 S 11 00.8	13 09.7 S 22 20.8	138 40.0 N 22 13.9	175 12.0 N 22 25.3	270 10.1 S 8 35.3	170 38.8 N 28 31.1	58.5	Altair	62 00.1	N 8 56.2	
16	270 35.4	63 52.5 S 11 01.7	28 09.0 S 22 21.4	153 41.3 N 22 13.8	190 14.6 N 22 25.3	285 12.7 S 8 35.3	185 02.1 N 28 32.8	58.5	Ankaa	353 06.9	S 42 10.3	
17	285 37.8	78 52.6 S 11 02.6	43 08.3 S 22 22.1	168 42.6 N 22 13.7	205 17.1 N 22 25.3	300 15.3 S 8 35.3	199 25.3 N 28 34.3	58.4	Antares	112 16.4	S 26 29.2	
18	300 40.3	93 52.7 S 11 03.5	58 07.6 S 22 22.8	183 44.0 N 22 13.5	220 19.7 N 22 25.3	315 17.8 S 8 35.4	213 48.7 N 28 35.7	58.4				
19	315 42.8	108 52.8 S 11 04.3	73 06.9 S 22 23.5	198 45.3 N 22 13.4	235 22.3 N 22 25.3	330 20.4 S 8 35.4	228 12.0 N 28 36.8	58.4	Arcturus	145 48.4	N 19 03.3	
20	330 45.2	123 52.9 S 11 05.2	88 06.1 S 22 24.1	213 46.6 N 22 13.3	250 24.9 N 22 25.3	345 22.9 S 8 35.5	242 35.4 N 28 37.8	58.3	Atria	107 11.1	S 69 04.5	
21	345 47.7	138 53.0 S 11 06.1	103 05.4 S 22 24.8	228 47.9 N 22 13.2	265 27.5 N 22 25.2	0 25.5 S 8 35.5	256 58.9 N 28 38.6	58.3	Avior	234 15.1	S 59 34.9	
22	0 50.1	153 53.0 S 11 07.0	118 04.7 S 22 25.5	243 49.2 N 22 13.0	280 30.0 N 22 25.2	15 28.1 S 8 35.5	271 22.4 N 28 39.2	58.2	Bellatrix	278 23.0	N 6 22.5	
23	15 52.6	168 53.1 S 11 07.9	133 04.0 S 22 26.1	258 50.5 N 22 12.9	295 32.6 N 22 25.2	30 30.6 S 8 35.6	285 45.9 N 28 39.6	58.2	Betelgeuse	270 52.2	N 7 24.8	
22 00	30 55.1	183 53.2 S 11 08.8	148 03.3 S 22 26.8	273 51.8 N 22 12.8	310 35.2 N 22 25.2	45 33.2 S 8 35.6	300 09.5 N 28 39.8	58.2	Canopus	263 52.4	S 52 42.1	
01	45 57.5	198 53.3 S 11 09.6	163 02.5 S 22 27.5	288 53.1 N 22 12.7	325 37.8 N 22 25.2	60 35.8 S 8 35.6	314 33.5 N 28 39.9	58.1	Capella	280 22.0	N 46 01.3	
02	61 00.0	213 53.4 S 11 10.5	178 01.8 S 22 28.1	303 54.5 N 22 12.6	340 40.3 N 22 25.2	75 38.3 S 8 35.7	328 56.9 N 28 39.7	58.1	Castor	245 57.4	N 31 50.0	
03	76 02.5	228 53.5 S 11 11.4	193 01.1 S 22 28.8	318 55.8 N 22 12.4	355 42.9 N 22 25.2	90 40.9 S 8 35.7	343 20.7 N 28 39.4	58.0	Deneb	49 25.8	N 45 22.4	
04	91 04.9	243 53.6 S 11 12.3	208 00.4 S 22 29.5	333 57.1 N 22 12.3	10 45.5 N 22 25.2	105 43.4 S 8 35.7	357 44.5 N 28 38.9	58.0	Denebola	182 25.5	N 44 26.1	
05	106 07.4	258 53.7 S 11 13.2	222 59.6 S 22 30.1	348 58.4 N 22 12.2	25 48.1 N 22 25.2	120 46.0 S 8 35.8	12 08.4 N 28 38.2	58.0				
06	121 09.9	273 53.8 S 11 14.0	237 58.9 S 22 30.8	3 59.7 N 22 12.1	40 50.7 N 22 25.2	135 48.6 S 8 35.8	26 32.4 N 28 37.3	57.9	Diphda	348 47.2	S 17 50.9	
07	136 12.3	288 53.9 S 11 14.9	252 58.2 S 22 31.4	19 01.0 N 22 12.0	55 53.2 N 22 25.2	150 51.1 S 8 35.8	40 56.4 N 28 36.3	57.9	Dubhe	193 41.8	N 61 37.0	
08	151 14.8	303 54.0 S 11 15.8	267 57.5 S 22 32.1	34 02.4 N 22 11.8	70 55.8 N 22 25.2	165 53.7 S 8 35.9	55 20.5 N 28 35.1	57.8	Elnath	278 02.0	N 28 37.7	
09	166 17.3	318 54.1 S 11 16.7	282 56.7 S 22 32.7	49 03.7 N 22 11.7	85 58.4 N 22 25.2	180 56.2 S 8 35.9	69 44.7 N 28 33.7	57.8	Etamin	90 42.5	N 51 29.4	
10	181 19.7	333 54.2 S 11 17.6	297 56.0 S 22 33.4	64 05.0 N 22 11.6	101 01.0 N 22 25.2	195 58.8 S 8 35.9	84 08.9 N 28 32.1	57.8	Enif	33 38.8	N 9 59.4	
11	196 22.2	348 54.2 S 11 18.4	312 55.3 S 22 34.1	79 06.3 N 22 11.5	116 03.6 N 22 25.1	211 01.4 S 8 36.0	98 33.2 N 28 30.3	57.7				
12	211 24.6	3 54.3 S 11 19.3	327 54.6 S 22 34.7	94 07.6 N 22 11.4	131 06.2 N 22 25.1	226 03.9 S 8 36.0	112 57.6 N 28 28.4	57.7	Fomalhaut	15 14.4	S 29 29.5	
13	226 27.1	18 54.4 S 11 20.2	342 53.8 S 22 35.4	109 09.0 N 22 11.2	146 08.7 N 22 25.1	241 06.5 S 8 36.0	127 22.1 N 28 26.3	57.6	Gacrux	171 52.5	S 57 15.0	
14	241 29.6	33 54.5 S 11 21.1	357 53.1 S 22 36.0	124 10.3 N 22 11.1	161 11.3 N 22 25.1	256 09.0 S 8 36.1	141 46.7 N 28 24.0	57.6	Gienah	175 44.2	S 17 40.6	
15	256 32.0	48 54.6 S 11 21.9	12 52.4 S 22 36.7	139 11.6 N 22 11.0	176 13.9 N 22 25.1	271 11.6 S 8 36.1	156 11.3 N 28 21.5	57.6	Hadar	148 37.0	S 60 29.5	
16	271 34.5	63 54.7 S 11 22.8	27 51.6 S 22 37.3	154 12.9 N 22 10.9	191 16.5 N 22 25.1	286 14.2 S 8 36.1	170 36.0 N 28 18.9	57.5	Hamal	327 51.1	N 23 34.9	
17	286 37.0	78 54.8 S 11 23.7	42 50.9 S 22 38.0	169 14.3 N 22 10.7	206 19.1 N 22 25.1	301 16.7 S 8 36.2	185 00.9 N 28 16.1	57.5				
18	301 39.4	93 54.9 S 11 24.6	57 50.2 S 22 38.6	184 15.6 N 22 10.6	221 21.7 N 22 25.1	316 19.3 S 8 36.2	199 25.8 N 28 13.2	57.4	Kaus aust.	83 32.9	S 34 22.5	
19	316 41.9	108 55.0 S 11 25.4	72 49.4 S 22 39.2	199 16.9 N 22 10.5	236 24.2 N 22 25.1	331 21.8 S 8 36.2	213 50.7 N 28 10.0	57.4	Kochab	137 20.8	N 74 03.3	
20	331 44.4	123 55.1 S 11 26.3	87 48.7 S 22 39.9	214 18.2 N 22 10.4	251 26.8 N 22 25.1	346 24.4 S 8 36.3	228 15.8 N 28 06.8	57.4	Markab	13 29.9	N 15 20.5	
21	346 46.8	138 55.1 S 11 27.2	102 48.0 S 22 40.5	229 19.6 N 22 10.3	266 29.4 N 22 25.1	1 27.0 S 8 36.3	242 41.0 N 28 03.3	57.3	Menkar	314 06.1	N 4 11.3	
22	1 49.3	153 55.2 S 11 28.1	117 47.3 S 22 41.2	244 20.9 N 22 10.1	281 32.0 N 22 25.1	16 29.5 S 8 36.3	257 06.2 N 27 59.7	57.3	Menkent	147 58.3	S 36 29.5	
23	16 51.8	168 55.3 S 11 28.9	132 46.5 S 22 41.8	259 22.2 N 22 10.0	296 34.6 N 22 25.1	31 32.1 S 8 36.4	271 31.6 N 27 55.9	57.2				
23 00	31 54.2	183 55.4 S 11 29.8	147 45.8 S 22 42.5	274 23.6 N 22 09.9	311 37.2 N 22 25.1	46 34.6 S 8 36.4	285 57.1 N 27 52.0	57.2	Miaplacidus	221 38.9	S 69 48.7	
01	46 56.7	198 55.5 S 11 30.7	162 45.1 S 22 43.1	289 24.9 N 22 09.8	326 39.8 N 22 25.0	61 37.2 S 8 36.4	300 22.6 N 27 47.9	57.2	Mirfak	308 28.2	N 49 56.9	
02	61 59.1	213 55.6 S 11 31.6	177 44.3 S 22 43.7	304 26.2 N 22 09.7	341 42.4 N 22 25.0	76 39.7 S 8 36.5	314 48.2 N 27 43.6	57.1	Mizar	158 46.6	N 54 47.8	
03	77 01.6	228 55.7 S 11 32.4	192 43.6 S 22 44.4	319 27.6 N 22 09.5	356 44.9 N 22 25.0	91 42.3 S 8 36.5	329 14.0 N 27 39.2	57.1	Nunki	75 48.1	S 26 17.0	
04	92 04.1	243 55.7 S 11 33.3	207 42.9 S 22 45.0	334 28.9 N 22 09.4	11 47.5 N 22 25.0	106 44.9 S 8 36.5	343 39.8 N 27 34.7	57.1	Peacock	53 05.9	S 56 39.5	
05	107 06.5	258 55.8 S 11 34.2	222 42.1 S 22 45.6	349 30.2 N 22 09.3	26 50.1 N 22 25.0	121 47.4 S 8 36.6	358 05.8 N 27 29.9	57.0	Polaris	313 44.4	N 89 22.0	
06	122 09.0	273 55.9 S 11 35.1	237 41.4 S 22 46.3	4 31.6 N 22 09.2	41 52.7 N 22 25.0	136 50.0 S 8 36.6	12 31.8 N 27 25.1	57.0	Pollux	243 17.6	N 27 58.0	
07	137 11.5	288 56.0 S 11 35.9	252 40.6 S 22 46.9	19 32.9 N 22 09.1	56 55.3 N 22 25.0	151 52.5 S 8 36.6	26 58.0 N 27 20.0	56.9	Procyon	244 51.1	N 5 09.8	
08	152 13.9	303 56.1 S 11 36.8	267 39.9 S 22 47.5	34 34.2 N 22 08.9	71 57.9 N 22 25.0	166 55.1 S 8 36.7	41 24.2 N 27 14.9	56.9	Rasalhague	95 58.9	N 12 3	

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	OTTOBRE	13
d h	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "
24 00	32 53.4	183 57.4 S 11 50.7	147 28.1 S 22 57.5	274 55.7 N 22 07.0	312 39.4 N 22 24.9	47 36.0 S 8 37.2	272 39.1 N 25 33.0	56.3	NOME	360	- AR	Dec.
01	47 55.8	198 57.5 S 11 51.6	162 27.3 S 22 58.1	289 57.0 N 22 06.9	327 42.0 N 22 24.9	62 38.5 S 8 37.2	287 07.3 N 25 25.6	56.3	Acamar	315	11.5	S 40 12.1
02	62 58.3	213 57.5 S 11 52.5	177 26.6 S 22 58.7	304 58.4 N 22 06.8	342 44.6 N 22 24.9	77 41.1 S 8 37.2	301 35.5 N 25 17.9	56.3	Achernar	335	19.7	S 57 06.6
03	78 00.7	228 57.6 S 11 53.3	192 25.8 S 22 59.3	319 59.7 N 22 06.6	357 47.2 N 22 24.8	92 43.6 S 8 37.3	316 03.9 N 25 10.2	56.2	AcruX	173	01.1	S 63 14.0
04	93 03.2	243 57.7 S 11 54.2	207 25.1 S 23 00.0	335 01.1 N 22 06.5	12 49.8 N 22 24.8	107 46.2 S 8 37.3	330 32.3 N 25 02.4	56.2	Adhara	255	06.0	S 29 00.0
05	108 05.7	258 57.8 S 11 55.0	222 24.4 S 23 00.6	350 02.4 N 22 06.4	27 52.4 N 22 24.8	122 48.8 S 8 37.3	345 00.9 N 24 54.4	56.2	Aldebaran	290	39.6	N 16 33.6
06	123 08.1	273 57.9 S 11 55.9	237 23.6 S 23 01.2	5 03.8 N 22 06.3	42 55.0 N 22 24.8	137 51.3 S 8 37.4	359 29.6 N 24 46.3	56.1				
07	138 10.6	288 57.9 S 11 56.8	252 22.9 S 23 01.8	20 05.1 N 22 06.2	57 57.6 N 22 24.8	152 53.9 S 8 37.4	13 58.4 N 24 38.1	56.1	Alioth	166	13.7	N 55 49.6
08	153 13.1	303 58.0 S 11 57.6	267 22.1 S 23 02.4	35 06.5 N 22 06.0	73 00.2 N 22 24.8	167 56.4 S 8 37.4	28 27.3 N 24 29.8	56.1	Alkaid	152	52.6	N 49 11.5
09	168 15.5	318 58.1 S 11 58.5	282 21.4 S 23 03.0	50 07.8 N 22 05.9	88 02.8 N 22 24.8	182 59.0 S 8 37.5	42 56.4 N 24 21.3	56.0	Alnair	27	32.8	S 46 50.6
10	183 18.0	333 58.2 S 11 59.4	297 20.6 S 23 03.6	65 09.2 N 22 05.8	103 05.4 N 22 24.8	198 01.5 S 8 37.5	57 25.5 N 24 12.8	56.0	Alnilam	275	37.8	S 1 11.0
11	198 20.5	348 58.2 S 12 00.2	312 19.9 S 23 04.2	80 10.5 N 22 05.7	118 08.0 N 22 24.8	213 04.1 S 8 37.5	71 54.8 N 24 04.1	56.0	Alphard	217	48.1	S 8 45.8
12	213 22.9	3 58.3 S 12 01.1	327 19.1 S 23 04.8	95 11.9 N 22 05.6	133 10.6 N 22 24.8	228 06.6 S 8 37.6	86 24.2 N 23 55.4	55.9				
13	228 25.4	18 58.4 S 12 02.0	342 18.4 S 23 05.4	110 13.2 N 22 05.4	148 13.2 N 22 24.8	243 09.2 S 8 37.6	100 53.6 N 23 46.5	55.9	Alphecca	126	04.2	N 26 38.0
14	243 27.9	33 58.5 S 12 02.8	357 17.6 S 23 06.0	125 14.6 N 22 05.3	163 15.8 N 22 24.8	258 11.7 S 8 37.6	115 23.2 N 23 37.5	55.9	Alpheratz	357	34.7	N 29 13.8
15	258 30.3	48 58.5 S 12 03.7	12 16.9 S 23 06.6	140 15.9 N 22 05.2	178 18.4 N 22 24.8	273 14.3 S 8 37.6	129 53.0 N 23 28.4	55.8	Altair	62	00.1	N 8 56.2
16	273 32.8	63 58.6 S 12 04.5	27 16.1 S 23 07.2	155 17.3 N 22 05.1	193 21.0 N 22 24.7	288 16.8 S 8 37.7	144 22.8 N 23 19.3	55.8	Ankaa	353	06.9	S 42 10.3
17	288 35.2	78 58.7 S 12 05.4	42 15.4 S 23 07.8	170 18.7 N 22 05.0	208 23.6 N 22 24.7	303 19.4 S 8 37.7	158 52.7 N 23 10.0	55.8	Antares	112	16.4	S 26 29.2
18	303 37.7	93 58.8 S 12 06.3	57 14.6 S 23 08.4	185 20.0 N 22 04.8	223 26.2 N 22 24.7	318 21.9 S 8 37.7	173 22.7 N 23 00.6	55.8				
19	318 40.2	108 58.8 S 12 07.1	72 13.9 S 23 09.0	200 21.4 N 22 04.7	238 28.8 N 22 24.7	333 24.5 S 8 37.8	187 52.9 N 22 51.1	55.7	Arcturus	145	48.4	N 19 03.3
20	333 42.6	123 58.9 S 12 08.0	87 13.1 S 23 09.6	215 22.7 N 22 04.6	253 31.4 N 22 24.7	348 27.0 S 8 37.8	202 23.2 N 22 41.5	55.7	Atria	107	11.1	S 69 04.5
21	348 45.1	138 59.0 S 12 08.9	102 12.4 S 23 10.2	230 24.1 N 22 04.5	268 34.0 N 22 24.7	3 29.6 S 8 37.8	216 53.5 N 22 31.8	55.7	Avior	234	15.0	S 59 34.9
22	3 47.6	153 59.0 S 12 09.7	117 11.6 S 23 10.7	245 25.5 N 22 04.4	283 36.6 N 22 24.7	18 32.1 S 8 37.9	231 24.0 N 22 22.0	55.6	Bellatrix	278	23.0	N 6 22.5
23	18 50.0	168 59.1 S 12 10.6	132 10.9 S 23 11.3	260 26.8 N 22 04.2	298 39.2 N 22 24.7	33 34.7 S 8 37.9	245 54.6 N 22 12.1	55.6	Betelgeuse	270	52.2	N 7 24.8
25 00	33 52.5	183 59.2 S 12 11.4	147 10.1 S 23 11.9	275 28.2 N 22 04.1	313 41.8 N 22 24.7	48 37.3 S 8 37.9	260 25.3 N 22 02.2	55.6	Canopus	263	52.4	S 52 42.1
01	48 55.0	198 59.3 S 12 12.3	162 09.4 S 23 12.5	290 29.5 N 22 04.0	328 44.4 N 22 24.7	63 39.8 S 8 38.0	274 56.1 N 21 52.1	55.6	Capella	280	22.0	N 46 01.3
02	63 57.4	213 59.3 S 12 13.2	177 08.6 S 23 13.1	305 30.9 N 22 03.9	343 47.0 N 22 24.7	78 42.4 S 8 38.0	289 27.0 N 21 42.0	55.5	Castor	245	57.3	N 31 50.0
03	78 59.9	228 59.4 S 12 14.0	192 07.9 S 23 13.7	320 32.3 N 22 03.8	358 49.6 N 22 24.6	93 44.9 S 8 38.0	303 58.0 N 21 31.7	55.5	Deneb	49	25.8	N 45 22.4
04	94 02.4	243 59.5 S 12 14.9	207 07.1 S 23 14.3	335 33.6 N 22 03.7	13 52.2 N 22 24.6	108 47.5 S 8 38.0	318 29.1 N 21 21.4	55.5	Denebola	182	25.5	N 44 26.1
05	109 04.8	258 59.5 S 12 15.7	222 06.3 S 23 14.9	350 35.0 N 22 03.5	28 54.8 N 22 24.6	123 50.0 S 8 38.1	333 00.3 N 21 11.0	55.4				
06	124 07.3	273 59.6 S 12 16.6	237 05.6 S 23 15.4	5 36.4 N 22 03.4	43 57.4 N 22 24.6	138 52.6 S 8 38.1	347 31.6 N 21 00.5	55.4	Diphda	348	47.2	S 17 50.9
07	139 09.7	288 59.7 S 12 17.4	252 04.8 S 23 16.0	20 37.7 N 22 03.3	59 00.0 N 22 24.6	153 55.1 S 8 38.1	2 03.1 N 20 49.9	55.4	Dubhe	193	41.8	N 61 36.9
08	154 12.2	303 59.7 S 12 18.3	267 04.1 S 23 16.6	35 39.1 N 22 03.2	74 02.6 N 22 24.6	168 57.7 S 8 38.2	16 34.6 N 20 39.2	55.4	Elnath	278	02.0	N 28 37.7
09	169 14.7	318 59.8 S 12 19.2	282 03.3 S 23 17.2	50 40.5 N 22 03.1	89 05.2 N 22 24.6	184 00.2 S 8 38.2	31 06.2 N 20 28.5	55.3	Etamin	90	42.5	N 51 29.4
10	184 17.1	333 59.9 S 12 20.0	297 02.6 S 23 17.8	65 41.8 N 22 02.9	104 07.8 N 22 24.6	199 02.8 S 8 38.2	45 37.9 N 20 17.6	55.3	Enif	33	38.8	N 9 59.4
11	199 19.6	349 00.0 S 12 20.9	312 01.8 S 23 18.3	80 43.2 N 22 02.8	119 10.5 N 22 24.6	214 05.3 S 8 38.2	60 09.8 N 20 06.7	55.3				
12	214 22.1	4 00.0 S 12 21.7	327 01.0 S 23 18.9	95 44.6 N 22 02.7	134 13.1 N 22 24.6	229 07.9 S 8 38.3	74 41.7 N 19 55.7	55.3	Fomalhaut	15	14.4	S 29 29.5
13	229 24.5	19 00.1 S 12 22.6	342 00.3 S 23 19.5	110 46.0 N 22 02.6	149 15.7 N 22 24.6	244 10.4 S 8 38.3	89 13.7 N 19 44.7	55.2	Gacrux	171	52.5	S 57 15.0
14	244 27.0	34 00.2 S 12 23.4	356 59.5 S 23 20.0	125 47.3 N 22 02.5	164 18.3 N 22 24.5	259 13.0 S 8 38.3	103 45.8 N 19 33.5	55.2	Gienah	175	44.1	S 17 40.6
15	259 29.5	49 00.2 S 12 24.3	11 58.8 S 23 20.6	140 48.7 N 22 02.3	179 20.9 N 22 24.5	274 15.5 S 8 38.4	118 18.0 N 19 22.3	55.2	Hadar	148	37.0	S 60 29.5
16	274 31.9	64 00.3 S 12 25.1	26 58.0 S 23 21.2	155 50.1 N 22 02.2	194 23.5 N 22 24.5	289 18.1 S 8 38.4	132 50.3 N 19 11.0	55.2	Hamal	327	51.1	N 23 34.9
17	289 34.4	79 00.4 S 12 26.0	41 57.3 S 23 21.8	170 51.4 N 22 02.1	209 26.1 N 22 24.5	304 20.6 S 8 38.4	147 22.7 N 18 59.7	55.1				
18	304 36.8	94 00.4 S 12 26.8	56 56.5 S 23 22.3	185 52.8 N 22 02.0	224 28.7 N 22 24.5	319 23.1 S 8 38.5	161 55.2 N 18 48.2	55.1	Kaus aust.	83	32.9	S 34 22.5
19	319 39.3	109 00.5 S 12 27.7	71 55.7 S 23 22.9	200 54.2 N 22 01.9	239 31.3 N 22 24.5	334 25.7 S 8 38.5	176 27.8 N 18 36.7	55.1	Kochab	137	20.8	N 74 03.3
20	334 41.8	124 00.6 S 12 28.6	86 55.0 S 23 23.5	215 55.6 N 22 01.7	254 34.0 N 22 24.5	349 28.2 S 8 38.5	191 00.5 N 18 25.2	55.1	Markab	13	29.9	N 15 20.5
21	349 44.2	139 00.6 S 12 29.4	101 54.2 S 23 24.0	230 56.9 N 22 01.6	269 36.6 N 22 24.5	4 30.8 S 8 38.5	205 33.3 N 18 13.5	55.0	Menkar	314	06.1	N 4 11.3
22	4 46.7	154 00.7 S 12 30.3	116 53.4 S 23 24.6	245 58.3 N 22 01.5	284 39.2 N 22 24.5	19 33.3 S 8 38.6	220 06.1 N 18 01.8	55.0	Menkent	147	58.3	S 36 29.4
23	19 49.2	169 00.7 S 12 31.1	131 52.7 S 23 25.2	260 59.7 N 22 01.4	299 41.8 N 22 24.5	34 35.9 S 8 38.6	234 39.1 N 17 50.1	55.0				
26 00	34 51.6	184 00.8 S 12 32.0	146 51.9 S 23 25.7	276 01.1 N 22 01.3	314 44.4 N 22 24.5	49 38.4 S 8 38.6	249 12.1 N 17 38.2	55.0	Miaplacidus	221	38.8	S 69 48.7
01	49 54.1	199 00.9 S 12 32.8	161 51.2 S 23 26.3	291 02.5 N 22 01.2	329 47.0 N 22 24.4	64 41.0 S 8 38.7	263 45.3 N 17 26.3	55.0	Mirfak	308	28.2	N 49 56.9
02	64 56.6	214 00.9 S 12 33.7	176 50.4 S 23 26.8	306 03.8 N 22 01.0	344 49.6 N 22 24.4	79 43.5 S 8 38.7	278 18.5 N 17 14.4	54.9	Mizar	158	46.6	N 54 47.8
03	79 59.0	229 01.0 S 12 34.5	191 49.6 S 23 27.4	321 05.2 N 22 00.9	359 52.9 N 22 24.4	94 46.1 S 8 38.7	292 51.8 N 17 02.3	54.9	Nunki	75	48.1	S 26 16.0
04	95 01.5	244 01.1 S 12 35.4	206 48.9 S 23 28.0	336 06.6 N 22 00.8	14 54.2 N 22 24.4	109 48.6 S 8 38.7	307 25.1 N 16 50.3	54.9	Peacock	53	05.9	S 56 39.5
05	110 04.0	259 01.1 S 12 36.2	221 48.1 S 23 28.5	351 08.0 N 22 00.7	29 57.5 N 22 24.4	124 51.2 S 8 38.8	321 58.6 N 16 38.1	54.9	Polaris	313	43.5	N 89 22.0
06	125 06.4	274 01.2 S 12 37.1	236 47.3 S 23 29.1	6 09.4 N 22 00.6	45 00.1 N 22 24.4	139 53.7 S 8 38.8	336 32.1 N 16 25.9	54.8	Pollux	243	17.6	N 27 58.0
07	140 08.9	289 01.2 S 12 37.9	251 46.6 S 23 29.6	21 10.8 N 22 00.4	60 02.7 N 22 24.4	154 56.3 S 8 38.8	351 05.8 N 16 13.7	54.8	Procyon	244	51.1	N 5 09.8
08	155 11.3	304 01.3 S 12 38.8	266 45.8 S 23 30.2	36 12.1 N 22 00.3	75 05.3 N 22 24.4	169 58.8 S 8 38.8	5 39.5 N 16 01.3	54.8	Rasalhague	95	58.9	

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	OTTOBRE	16
d h	' "	' "	' "	' "	' "	' "	' "	' "	NOME	360	- AR	Dec.
27 00	35 50.8	184 02.2 S 12 52.3	146 33.5 S 23 38.9	276 34.4 N 21 58.4	315 47.2 N 22 24.2	50 39.5 S 8 39.3	238 48.6 N 12 37.4	54.5	NOME	360	- AR	Dec.
01	50 53.2	199 02.3 S 12 53.1	161 32.7 S 23 39.4	291 35.8 N 21 58.3	330 49.9 N 22 24.2	65 42.1 S 8 39.3	253 23.5 N 12 24.3	54.5	Acamar	315	11.5	S 40 12.1
02	65 55.7	214 02.4 S 12 54.0	176 32.0 S 23 39.9	306 37.2 N 21 58.2	345 52.5 N 22 24.2	80 44.6 S 8 39.3	267 58.4 N 12 11.1	54.5	Achernar	335	19.7	S 57 06.6
03	80 58.2	229 02.4 S 12 54.8	191 31.2 S 23 40.5	321 38.6 N 21 58.1	0 55.1 N 22 24.2	95 47.2 S 8 39.4	282 33.5 N 11 57.9	54.5	Acruz	173	01.1	S 63 14.0
04	96 00.6	244 02.5 S 12 55.7	206 30.4 S 23 41.0	336 40.0 N 21 58.0	15 57.7 N 22 24.2	110 49.7 S 8 39.4	297 08.5 N 11 44.7	54.5	Adhara	255	06.0	S 29 00.0
05	111 03.1	259 02.5 S 12 56.5	221 29.6 S 23 41.5	351 41.4 N 21 57.9	31 00.3 N 22 24.2	125 52.7 S 8 39.4	311 43.6 N 11 31.4	54.4	Aldebaran	290	39.6	N 16 33.6
06	126 05.6	274 02.6 S 12 57.4	236 28.9 S 23 42.1	6 42.8 N 21 57.7	46 03.0 N 22 24.2	140 54.8 S 8 39.4	326 18.8 N 11 18.1	54.4				
07	141 08.0	289 02.6 S 12 58.2	251 28.1 S 23 42.6	21 44.2 N 21 57.6	61 05.6 N 22 24.2	155 57.3 S 8 39.5	340 54.0 N 11 04.7	54.4	Alioth	166	13.7	N 55 49.5
08	156 10.5	304 02.7 S 12 59.0	266 27.3 S 23 43.1	36 45.6 N 21 57.5	76 08.2 N 22 24.2	170 59.9 S 8 39.5	355 29.3 N 10 51.3	54.4	Alkaid	152	52.6	N 49 11.4
09	171 12.9	319 02.7 S 12 59.9	281 26.5 S 23 43.6	51 47.0 N 21 57.4	91 10.8 N 22 24.1	186 02.4 S 8 39.5	10 04.7 N 10 37.9	54.4	Alnair	27	32.9	S 46 50.6
10	186 15.4	334 02.8 S 13 00.7	296 25.8 S 23 44.2	66 48.4 N 21 57.3	106 13.5 N 22 24.1	201 05.0 S 8 39.6	24 40.0 N 10 24.5	54.4	Alnilam	275	37.8	S 1 11.0
11	201 17.9	349 02.8 S 13 01.6	311 25.0 S 23 44.7	81 49.8 N 21 57.2	121 16.1 N 22 24.1	216 07.5 S 8 39.6	39 15.5 N 10 11.0	54.4	Alphard	217	48.1	S 8 45.8
12	216 20.3	4 02.9 S 13 02.4	326 24.2 S 23 45.2	96 51.2 N 21 57.0	136 18.7 N 22 24.1	231 10.1 S 8 39.6	53 51.0 N 9 57.5	54.3				
13	231 22.8	19 02.9 S 13 03.2	341 23.4 S 23 45.7	111 52.6 N 21 56.9	151 21.3 N 22 24.1	246 12.6 S 8 39.6	68 26.5 N 9 43.9	54.3	Alphecca	126	04.2	N 26 38.0
14	246 25.3	34 03.0 S 13 04.1	356 22.7 S 23 46.2	126 54.0 N 21 56.8	166 24.0 N 22 24.1	261 15.1 S 8 39.7	83 02.1 N 9 30.3	54.3	Alpheratz	357	34.7	N 29 13.8
15	261 27.7	49 03.0 S 13 04.9	11 21.9 S 23 46.8	141 55.4 N 21 56.7	181 26.6 N 22 24.1	276 17.7 S 8 39.7	97 37.7 N 9 16.7	54.3	Altair	62	00.2	N 8 56.1
16	276 30.2	64 03.1 S 13 05.8	26 21.1 S 23 47.3	156 56.8 N 21 56.6	196 29.2 N 22 24.1	291 20.2 S 8 39.7	112 13.4 N 9 03.1	54.3	Ankaa	353	06.9	S 42 10.3
17	291 32.7	79 03.1 S 13 06.6	41 20.3 S 23 47.8	171 58.2 N 21 56.5	211 31.9 N 22 24.1	306 22.8 S 8 39.7	126 49.1 N 8 49.4	54.3	Antares	112	16.4	S 26 29.2
18	306 35.1	94 03.2 S 13 07.4	56 19.5 S 23 48.3	186 59.6 N 21 56.3	226 34.5 N 22 24.1	321 25.3 S 8 39.8	141 24.8 N 8 35.7	54.3				
19	321 37.6	109 03.2 S 13 08.3	71 18.8 S 23 48.8	202 01.0 N 21 56.2	241 37.1 N 22 24.0	336 27.8 S 8 39.8	156 00.6 N 8 22.0	54.3	Arcturus	145	48.4	N 19 03.3
20	336 40.1	124 03.3 S 13 09.1	86 18.0 S 23 49.3	217 02.5 N 21 56.1	256 39.7 N 22 24.0	351 30.4 S 8 39.8	170 36.5 N 8 08.3	54.3	Atria	107	11.1	S 69 04.5
21	351 42.5	139 03.3 S 13 09.9	101 17.2 S 23 49.8	232 03.9 N 21 56.0	271 42.4 N 22 24.0	6 32.9 S 8 39.8	185 12.3 N 7 54.5	54.2	Avior	234	15.0	S 59 34.9
22	6 45.0	154 03.4 S 13 10.8	116 16.4 S 23 50.4	247 05.3 N 21 55.9	286 45.0 N 22 24.0	21 35.5 S 8 39.9	199 48.3 N 7 40.7	54.2	Bellatrix	278	22.9	N 6 22.5
23	21 47.4	169 03.4 S 13 11.6	131 15.7 S 23 50.9	262 06.7 N 21 55.8	301 47.6 N 22 24.0	36 38.0 S 8 39.9	214 24.2 N 7 26.9	54.2	Betelgeuse	270	52.2	N 7 24.8
28 00	36 49.9	184 03.5 S 13 12.4	146 14.9 S 23 51.4	277 08.1 N 21 55.6	316 50.3 N 22 24.0	51 40.5 S 8 39.9	229 00.2 N 7 13.1	54.2	Canopus	263	52.3	S 52 42.1
01	51 52.4	199 03.5 S 13 13.3	161 14.1 S 23 51.9	292 09.5 N 21 55.5	331 52.9 N 22 24.0	66 43.1 S 8 39.9	243 36.2 N 6 59.2	54.2	Capella	280	22.0	N 46 01.3
02	66 54.8	214 03.6 S 13 14.1	176 13.3 S 23 52.4	307 10.9 N 21 55.4	346 55.5 N 22 24.0	81 45.6 S 8 40.0	258 12.3 N 6 45.3	54.2	Castor	245	57.3	N 31 50.0
03	81 57.3	229 03.6 S 13 14.9	191 12.5 S 23 52.9	322 12.3 N 21 55.3	1 58.2 N 22 24.0	96 48.2 S 8 40.0	272 48.3 N 6 31.4	54.2	Deneb	49	25.8	N 45 22.4
04	96 59.8	244 03.7 S 13 15.8	206 11.7 S 23 53.4	337 13.8 N 21 55.2	17 00.8 N 22 24.0	111 50.7 S 8 40.0	287 24.4 N 6 17.5	54.2	Denebola	182	25.5	N 44 26.1
05	112 02.2	259 03.7 S 13 16.6	221 11.0 S 23 53.9	352 15.2 N 21 55.1	32 03.4 N 22 23.9	126 53.2 S 8 40.0	302 00.6 N 6 03.6	54.2				
06	127 04.7	274 03.8 S 13 17.4	236 10.2 S 23 54.4	7 16.6 N 21 54.9	47 06.1 N 22 23.9	141 55.8 S 8 40.1	316 36.8 N 5 49.6	54.2	Diphda	348	47.2	S 17 50.9
07	142 07.2	289 03.8 S 13 18.3	251 09.4 S 23 54.9	22 18.0 N 21 54.8	62 08.7 N 22 23.9	156 58.3 S 8 40.1	331 13.0 N 5 35.7	54.1	Dubhe	193	41.7	N 61 36.9
08	157 09.6	304 03.9 S 13 19.1	266 08.6 S 23 55.4	37 19.4 N 21 54.7	77 11.3 N 22 23.9	172 00.9 S 8 40.1	345 49.2 N 5 21.7	54.1	Elnath	278	01.9	N 28 37.7
09	172 12.1	319 03.9 S 13 19.9	281 07.8 S 23 55.9	52 20.9 N 21 54.6	92 14.0 N 22 23.9	187 03.4 S 8 40.1	0 25.4 N 5 07.7	54.1	Etamin	90	42.5	N 51 29.4
10	187 14.5	334 03.9 S 13 20.8	296 07.0 S 23 56.4	67 22.3 N 21 54.5	107 16.6 N 22 23.9	202 05.9 S 8 40.2	15 01.7 N 4 53.7	54.1	Enif	33	38.8	N 9 59.4
11	202 17.0	349 04.0 S 13 21.6	311 06.3 S 23 56.9	82 23.7 N 21 54.4	122 19.2 N 22 23.9	217 08.5 S 8 40.2	29 38.0 N 4 39.6	54.1				
12	217 19.5	4 04.0 S 13 22.4	326 05.5 S 23 57.4	97 25.1 N 21 54.2	137 21.9 N 22 23.9	232 11.0 S 8 40.2	44 14.3 N 4 25.6	54.1	Fomalhaut	15	14.5	S 29 29.5
13	232 21.9	19 04.1 S 13 23.3	341 04.7 S 23 57.9	112 26.5 N 21 54.1	152 24.5 N 22 23.9	247 13.6 S 8 40.2	58 50.7 N 4 11.5	54.1	Gacrux	171	52.5	S 57 15.0
14	247 24.4	34 04.1 S 13 24.1	356 03.9 S 23 58.4	127 28.0 N 21 54.0	167 27.1 N 22 23.9	262 16.1 S 8 40.3	73 27.0 N 3 57.5	54.1	Gienah	175	44.1	S 17 40.6
15	262 26.9	49 04.2 S 13 24.9	11 03.1 S 23 58.9	142 29.4 N 21 53.9	182 29.8 N 22 23.8	277 18.6 S 8 40.3	88 03.4 N 3 43.4	54.1	Hadar	148	37.0	S 60 29.5
16	277 29.3	64 04.2 S 13 25.8	26 02.3 S 23 59.3	157 30.8 N 21 53.8	197 32.4 N 22 23.8	292 21.2 S 8 40.3	102 39.8 N 3 29.3	54.1	Hamal	327	51.1	N 23 34.9
17	292 31.8	79 04.2 S 13 26.6	41 01.5 S 23 59.8	172 32.2 N 21 53.7	212 35.0 N 22 23.8	307 23.7 S 8 40.3	117 16.2 N 3 15.2	54.1				
18	307 34.3	94 04.3 S 13 27.4	56 00.8 S 24 00.3	187 33.7 N 21 53.6	227 37.7 N 22 23.8	322 26.2 S 8 40.4	131 52.7 N 3 01.1	54.1	Kaus aust.	83	32.9	S 34 22.5
19	322 36.7	109 04.3 S 13 28.2	71 00.0 S 24 00.8	202 35.1 N 21 53.4	242 40.3 N 22 23.8	337 28.8 S 8 40.4	146 29.1 N 2 47.0	54.1	Kochab	137	20.8	N 74 03.3
20	337 39.2	124 04.4 S 13 29.1	85 59.2 S 24 01.3	217 36.5 N 21 53.3	257 42.9 N 22 23.8	352 31.3 S 8 40.4	161 05.6 N 2 32.9	54.1	Markab	13	29.9	N 15 20.5
21	352 41.7	139 04.4 S 13 29.9	100 58.4 S 24 01.8	232 37.9 N 21 53.2	272 45.6 N 22 23.8	7 33.9 S 8 40.4	175 42.0 N 2 18.7	54.1	Menkar	314	06.1	N 4 11.3
22	7 44.1	154 04.5 S 13 30.7	115 57.6 S 24 02.3	247 39.4 N 21 53.1	287 48.2 N 22 23.8	22 36.4 S 8 40.5	190 18.5 N 2 04.6	54.0	Menkent	147	58.3	S 36 29.4
23	22 46.6	169 04.5 S 13 31.6	130 56.8 S 24 02.7	262 40.8 N 21 53.0	302 50.9 N 22 23.8	37 38.9 S 8 40.5	204 55.0 N 1 50.4	54.0				
29 00	37 49.0	184 04.5 S 13 32.4	145 56.0 S 24 03.2	277 42.2 N 21 52.9	317 53.5 N 22 23.7	52 41.5 S 8 40.5	219 31.5 N 1 36.3	54.0	Miaplacidus	221	38.8	S 69 48.7
01	52 51.5	199 04.6 S 13 33.2	160 55.2 S 24 03.7	292 43.7 N 21 52.8	332 56.1 N 22 23.7	67 44.0 S 8 40.5	234 08.0 N 1 22.1	54.0	Mirfak	308	28.1	N 49 56.9
02	67 54.0	214 04.6 S 13 34.0	175 54.5 S 24 04.2	307 45.1 N 21 52.6	347 58.8 N 22 23.7	82 46.5 S 8 40.5	248 44.5 N 1 08.0	54.0	Mizar	158	46.6	N 54 47.8
03	82 56.4	229 04.6 S 13 34.9	190 53.7 S 24 04.6	322 46.5 N 21 52.5	3 01.4 N 22 23.7	97 49.1 S 8 40.6	263 21.0 N 0 53.8	54.0	Nunki	75	48.1	S 26 17.0
04	97 58.9	244 04.7 S 13 35.7	205 52.9 S 24 05.1	337 48.0 N 21 52.4	18 04.1 N 22 23.7	112 51.6 S 8 40.6	277 57.6 N 0 39.7	54.0	Peacock	53	05.9	S 56 39.5
05	113 01.4	259 04.7 S 13 36.5	220 52.1 S 24 05.6	352 49.4 N 21 52.3	33 06.7 N 22 23.7	127 54.2 S 8 40.6	292 34.1 N 0 25.5	54.0	Polaris	313	42.8	N 89 22.0
06	128 03.8	274 04.8 S 13 37.3	235 51.3 S 24 06.1	7 50.8 N 21 52.2	48 09.3 N 22 23.7	142 56.7 S 8 40.6	307 10.6 N 0 11.3	54.0	Pollux	243	17.6	N 27 58.0
07	143 06.3	289 04.8 S 13 38.2	250 50.5 S 24 06.5	22 52.3 N 21 52.1	63 12.0 N 22 23.7	157 59.2 S 8 40.7	321 47.2 S 0 02.8	54.0	Procyon	244	51.1	N 5 09.8
08	158 08.8	304 04.8 S 13 39.0	265 49.7 S 24 07.0	37 53.7 N 21 52.0	78 14.6 N 22 23.7	173 01.8 S 8 40.7	336 23.7 S 0 17.0	54.0	Rasalhague	95	58.9	N 12 32.6
09	173 11.2											

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	OTTOBRE	19
d h	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "			
30 00	38 48.2	184 05.4	S 13 52.1	145 37.0	S 24 14.4	278 16.8	N 21 50.1	318 56.9	N 22 23.5	53 42.3	S 8 41.0	210 07.4	S 4 02.9	54.0	NOME	360 - AR	Dec.	
01	53 50.6	199 05.4	S 13 52.9	160 36.2	S 24 14.8	293 18.3	N 21 50.0	333 59.6	N 22 23.5	68 44.8	S 8 41.1	224 43.8	S 4 17.0	54.0	Acamar	315 11.5	S 40 12.1	
02	68 53.1	214 05.4	S 13 53.7	175 35.4	S 24 15.3	308 19.7	N 21 49.9	349 02.2	N 22 23.5	83 47.4	S 8 41.1	239 20.2	S 4 31.0	54.0	Achernar	335 19.7	S 57 06.6	
03	83 55.6	229 05.5	S 13 54.5	190 34.6	S 24 15.7	323 21.2	N 21 49.8	4 04.9	N 22 23.4	98 49.9	S 8 41.1	253 56.5	S 4 45.0	54.0	Acruz	173 01.1	S 63 14.0	
04	98 58.0	244 05.5	S 13 55.4	205 33.8	S 24 16.2	338 22.6	N 21 49.7	19 07.5	N 22 23.4	113 52.4	S 8 41.1	268 32.8	S 4 59.0	54.0	Adhara	255 06.0	S 29 00.0	
05	114 00.5	259 05.5	S 13 56.2	220 33.0	S 24 16.6	353 24.1	N 21 49.6	34 10.2	N 22 23.4	128 55.0	S 8 41.2	283 09.1	S 5 13.0	54.0	Aldebaran	290 39.6	N 16 33.6	
06	129 03.0	274 05.6	S 13 57.0	235 32.2	S 24 17.1	8 25.5	N 21 49.5	49 12.8	N 22 23.4	143 57.5	S 8 41.2	297 45.4	S 5 27.0	54.0				
07	144 05.4	289 05.6	S 13 57.8	250 31.4	S 24 17.5	23 27.0	N 21 49.4	64 15.5	N 22 23.4	159 00.0	S 8 41.2	312 21.7	S 5 40.9	54.0	Alioth	166 13.7	N 55 49.5	
08	159 07.9	304 05.6	S 13 58.6	265 30.6	S 24 18.0	38 28.4	N 21 49.2	79 18.1	N 22 23.4	174 02.6	S 8 41.2	326 57.9	S 5 54.8	54.0	Alkaid	152 52.6	N 49 11.4	
09	174 10.4	319 05.7	S 13 59.4	280 29.8	S 24 18.4	53 29.9	N 21 49.1	94 20.8	N 22 23.4	189 05.1	S 8 41.2	341 34.1	S 6 08.7	54.0	Alnair	27 32.9	S 46 50.6	
10	189 12.8	334 05.7	S 14 00.3	295 29.0	S 24 18.8	68 31.3	N 21 49.0	109 23.4	N 22 23.4	204 07.6	S 8 41.3	356 10.3	S 6 22.6	54.0	Alnilam	275 37.8	S 1 11.0	
11	204 15.3	349 05.7	S 14 01.1	310 28.2	S 24 19.3	83 32.8	N 21 48.9	124 26.1	N 22 23.4	219 10.2	S 8 41.3	10 46.4	S 6 36.5	54.0	Alphard	217 48.1	S 8 45.8	
12	219 17.8	4 05.7	S 14 01.9	325 27.4	S 24 19.7	98 34.2	N 21 48.8	139 28.7	N 22 23.3	234 12.7	S 8 41.3	25 22.5	S 6 50.4	54.0				
13	234 20.2	19 05.8	S 14 02.7	340 26.6	S 24 20.2	113 35.7	N 21 48.7	154 31.4	N 22 23.3	249 15.2	S 8 41.3	39 58.6	S 7 04.2	54.0	Alphecca	126 04.2	N 26 38.0	
14	249 22.7	34 05.8	S 14 03.5	355 25.8	S 24 20.6	128 37.2	N 21 48.6	169 34.0	N 22 23.3	264 17.7	S 8 41.3	54 34.7	S 7 18.0	54.0	Alpheratz	357 34.7	N 29 13.8	
15	264 25.1	49 05.8	S 14 04.3	10 25.0	S 24 21.0	143 38.6	N 21 48.5	184 36.7	N 22 23.3	279 20.3	S 8 41.4	69 10.7	S 7 31.8	54.0	Altair	62 00.2	N 8 56.1	
16	279 27.6	64 05.8	S 14 05.1	25 24.2	S 24 21.5	158 40.1	N 21 48.4	199 39.3	N 22 23.3	294 22.8	S 8 41.4	83 46.7	S 7 45.5	54.0	Ankaa	353 06.9	S 42 10.3	
17	294 30.1	79 05.9	S 14 05.9	40 23.4	S 24 21.9	173 41.5	N 21 48.2	214 42.0	N 22 23.3	309 25.3	S 8 41.4	98 22.7	S 7 59.3	54.0	Antares	112 16.4	S 26 29.2	
18	309 32.5	94 05.9	S 14 06.7	55 22.6	S 24 22.3	188 43.0	N 21 48.1	229 44.6	N 22 23.3	324 27.9	S 8 41.4	112 58.6	S 8 13.0	54.0				
19	324 35.0	109 05.9	S 14 07.6	70 21.8	S 24 22.8	203 44.5	N 21 48.0	244 47.3	N 22 23.3	339 30.4	S 8 41.5	127 34.5	S 8 26.6	54.0	Arcturus	145 48.4	N 19 03.3	
20	339 37.5	124 05.9	S 14 08.4	85 21.0	S 24 23.2	218 45.9	N 21 47.9	259 50.0	N 22 23.3	354 32.9	S 8 41.5	142 10.4	S 8 40.3	54.0	Atria	107 11.2	S 69 04.5	
21	354 39.9	139 06.0	S 14 09.2	100 20.2	S 24 23.6	233 47.4	N 21 47.8	274 52.6	N 22 23.2	9 35.5	S 8 41.5	156 46.2	S 8 53.9	54.0	Avior	234 14.9	S 59 34.9	
22	9 42.4	154 06.0	S 14 10.0	115 19.4	S 24 24.0	248 48.9	N 21 47.7	289 55.3	N 22 23.2	24 38.0	S 8 41.5	171 22.0	S 9 07.5	54.0	Bellatrix	278 22.9	N 6 22.5	
23	24 44.9	169 06.0	S 14 10.8	130 18.6	S 24 24.5	263 50.3	N 21 47.6	304 57.9	N 22 23.2	39 40.5	S 8 41.5	185 57.7	S 9 21.1	54.0	Betelgeuse	270 52.2	N 7 24.8	
31 00	39 47.3	184 06.0	S 14 11.6	145 17.8	S 24 24.9	278 51.8	N 21 47.5	320 00.6	N 22 23.2	54 43.0	S 8 41.6	200 33.4	S 9 34.6	54.0	Canopus	263 52.3	S 52 42.1	
01	54 49.8	199 06.1	S 14 12.4	160 17.0	S 24 25.3	293 53.3	N 21 47.4	335 03.2	N 22 23.2	69 45.6	S 8 41.6	215 09.1	S 9 48.1	54.0	Capella	280 21.9	N 46 01.3	
02	69 52.2	214 06.1	S 14 13.2	175 16.2	S 24 25.7	308 54.7	N 21 47.2	350 05.9	N 22 23.2	84 48.1	S 8 41.6	229 44.7	S 10 01.6	54.1	Castor	245 57.3	N 31 50.0	
03	84 54.7	229 06.1	S 14 14.0	190 15.4	S 24 26.2	323 56.2	N 21 47.1	5 08.5	N 22 23.2	99 50.6	S 8 41.6	244 20.3	S 10 15.0	54.1	Deneb	49 25.9	N 45 22.4	
04	99 57.2	244 06.1	S 14 14.8	205 14.6	S 24 26.6	338 57.7	N 21 47.0	20 11.2	N 22 23.2	114 53.2	S 8 41.6	258 55.8	S 10 28.4	54.1	Denebola	182 25.4	N 44 26.1	
05	114 59.6	259 06.2	S 14 15.6	220 13.8	S 24 27.0	353 59.2	N 21 46.9	35 13.9	N 22 23.1	129 55.7	S 8 41.7	273 31.3	S 10 41.8	54.1				
06	130 02.1	274 06.2	S 14 16.4	235 13.0	S 24 27.4	9 00.6	N 21 46.8	50 16.5	N 22 23.1	144 58.2	S 8 41.7	288 06.7	S 10 55.1	54.1	Diphda	348 47.2	S 17 51.0	
07	145 04.6	289 06.2	S 14 17.2	250 12.1	S 24 27.8	24 02.1	N 21 46.7	65 19.2	N 22 23.1	160 00.7	S 8 41.7	302 42.1	S 11 08.4	54.1	Dubhe	193 41.7	N 61 36.9	
08	160 07.0	304 06.2	S 14 18.0	265 11.3	S 24 28.2	39 03.6	N 21 46.6	80 21.8	N 22 23.1	175 03.3	S 8 41.7	317 17.5	S 11 21.7	54.1	Elnath	278 01.9	N 28 37.7	
09	175 09.5	319 06.2	S 14 18.9	280 10.5	S 24 28.6	54 05.0	N 21 46.5	95 24.5	N 22 23.1	190 05.8	S 8 41.7	331 52.8	S 11 34.9	54.1	Etamin	90 42.5	N 51 29.4	
10	190 12.0	334 06.3	S 14 19.7	295 09.7	S 24 29.1	69 06.5	N 21 46.4	110 27.2	N 22 23.1	205 08.3	S 8 41.8	346 28.8	S 11 48.1	54.1	Enif	33 38.9	N 9 59.4	
11	205 14.4	349 06.3	S 14 20.5	310 08.9	S 24 29.5	84 08.0	N 21 46.3	125 29.8	N 22 23.1	220 10.9	S 8 41.8	1 03.2	S 12 01.2	54.1				
12	220 16.9	4 06.3	S 14 21.3	325 08.1	S 24 29.9	99 09.5	N 21 46.1	140 32.5	N 22 23.1	235 13.4	S 8 41.8	15 38.4	S 12 14.3	54.1	Fomalhaut	15 14.5	S 29 29.5	
13	235 19.4	19 06.3	S 14 22.1	340 07.3	S 24 30.3	114 10.9	N 21 46.0	155 35.1	N 22 23.1	250 15.9	S 8 41.8	30 13.5	S 12 27.3	54.1	Gacrux	171 52.5	S 57 14.9	
14	250 21.8	34 06.3	S 14 22.9	355 06.5	S 24 30.7	129 12.4	N 21 45.9	170 37.8	N 22 23.0	265 18.4	S 8 41.8	44 48.5	S 12 40.4	54.1	Gienah	175 44.1	S 17 40.6	
15	265 24.3	49 06.3	S 14 23.7	10 05.7	S 24 31.1	144 13.9	N 21 45.8	185 40.5	N 22 23.0	280 21.0	S 8 41.9	59 23.5	S 12 53.3	54.1	Hadar	148 37.0	S 60 29.5	
16	280 26.7	64 06.4	S 14 24.5	25 04.9	S 24 31.5	159 15.4	N 21 45.7	200 43.1	N 22 23.0	295 23.5	S 8 41.9	73 58.4	S 13 06.3	54.1	Hamal	327 51.1	N 23 34.9	
17	295 29.2	79 06.4	S 14 25.3	40 04.1	S 24 31.9	174 16.9	N 21 45.6	215 45.8	N 22 23.0	310 26.0	S 8 41.9	88 33.3	S 13 19.1	54.1				
18	310 31.7	94 06.4	S 14 26.1	55 03.3	S 24 32.3	189 18.3	N 21 45.5	230 48.4	N 22 23.0	325 28.5	S 8 41.9	103 08.1	S 13 32.0	54.1	Kaus aust.	83 32.9	S 34 22.5	
19	325 34.1	109 06.4	S 14 26.9	70 02.5	S 24 32.7	204 19.8	N 21 45.4	245 51.1	N 22 23.0	340 31.1	S 8 41.9	117 42.9	S 13 44.8	54.2	Kochab	137 20.8	N 74 03.3	
20	340 36.6	124 06.4	S 14 27.7	85 01.6	S 24 33.1	219 21.3	N 21 45.3	260 53.8	N 22 23.0	355 33.6	S 8 41.9	132 17.6	S 13 57.5	54.2	Markab	13 29.9	N 15 20.5	
21	355 39.1	139 06.5	S 14 28.5	100 00.8	S 24 33.5	234 22.8	N 21 45.2	275 56.4	N 22 23.0	10 36.1	S 8 42.0	146 52.2	S 14 10.2	54.2	Menkar	314 06.1	N 4 11.3	
22	10 41.5	154 06.5	S 14 29.3	115 00.0	S 24 33.9	249 24.3	N 21 45.1	290 59.1	N 22 22.9	25 38.6	S 8 42.0	161 26.8	S 14 22.8	54.2	Menkent	147 58.3	S 36 29.4	
23	25 44.0	169 06.5	S 14 30.1	129 59.2	S 24 34.3	264 25.8	N 21 44.9	306 01.8	N 22 22.9	40 41.2	S 8 42.0	176 01.3	S 14 35.4	54.2				
Nov 01 00	40 46.5	184 06.5	S 14 30.9	144 58.4	S 24 34.7	279 27.2	N 21 44.8	321 04.4	N 22 22.9	55 43.7	S 8 42.0	190 35.8	S 14 47.9	54.2	Miaplacidus	221 38.7	S 69 48.7	
01	55 48.9	199 06.5	S 14 31.7	159 57.6	S 24 35.1	294 28.7	N 21 44.7	336 07.1	N 22 22.9	70 46.2	S 8 42.0	205 10.2	S 15 00.4					

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	OTTOBRE	22					
d h	' °	' °	' °	' °	' °	' °	' °	' °	NOME	360	- AR	Dec.					
02 00	41 45.6	184 06.8	S 14 49.9	144 38.9	S 24 43.8	280 03.1	N 21 42.3	322 08.4	N 22 22.6	56 44.3	S 8 42.4	180 02.3	S 19 30.7	54.4			
01	56 48.1	199 06.8	S 14 50.7	159 38.0	S 24 44.2	295 04.7	N 21 42.2	337 11.1	N 22 22.6	71 46.8	S 8 42.5	194 35.0	S 19 41.6	54.4	Acamar	315 11.5	S 40 12.1
02	71 50.5	214 06.8	S 14 51.5	174 37.2	S 24 44.6	310 06.2	N 21 42.1	352 13.8	N 22 22.6	86 49.3	S 8 42.5	209 07.6	S 19 52.4	54.4	Achernar	335 19.7	S 57 06.6
03	86 53.0	229 06.8	S 14 52.3	189 36.4	S 24 44.9	325 07.7	N 21 42.0	7 16.5	N 22 22.6	101 51.8	S 8 42.5	223 40.1	S 20 03.2	54.4	AcruX	173 01.0	S 63 14.0
04	101 55.5	244 06.8	S 14 53.1	204 35.6	S 24 45.3	340 09.2	N 21 41.8	22 19.1	N 22 22.6	116 54.2	S 8 42.5	238 12.6	S 20 13.9	54.5	Adhara	255 05.9	S 29 00.0
05	116 57.9	259 06.8	S 14 53.9	219 34.8	S 24 45.6	355 10.7	N 21 41.7	37 21.8	N 22 22.6	131 56.9	S 8 42.5	252 44.9	S 20 24.5	54.5	Aldebaran	290 39.6	N 16 33.6
06	132 00.4	274 06.8	S 14 54.6	234 34.0	S 24 46.0	10 12.2	N 21 41.6	52 24.5	N 22 22.5	146 59.4	S 8 42.5	267 17.2	S 20 35.0	54.5			
07	147 02.8	289 06.8	S 14 55.4	249 33.1	S 24 46.4	25 13.7	N 21 41.5	67 27.2	N 22 22.5	162 01.9	S 8 42.6	281 49.4	S 20 45.4	54.5	Alioth	166 13.7	N 55 49.5
08	162 05.3	304 06.8	S 14 56.2	264 32.3	S 24 46.7	40 15.2	N 21 41.4	82 29.8	N 22 22.5	177 04.4	S 8 42.6	296 21.5	S 20 55.8	54.5	Alkaid	152 52.6	N 49 11.4
09	177 07.8	319 06.8	S 14 57.0	279 31.5	S 24 47.1	55 16.7	N 21 41.3	97 32.5	N 22 22.5	192 06.9	S 8 42.6	310 53.6	S 21 06.0	54.5	Alnair	27 32.9	S 46 50.6
10	192 10.2	334 06.8	S 14 57.8	294 30.7	S 24 47.4	70 18.2	N 21 41.2	112 35.2	N 22 22.5	207 09.5	S 8 42.6	325 25.5	S 21 16.2	54.5	Alnilam	275 37.7	S 1 11.0
11	207 12.7	349 06.8	S 14 58.6	309 29.9	S 24 47.8	85 19.8	N 21 41.1	127 37.9	N 22 22.5	222 12.0	S 8 42.6	339 57.4	S 21 26.3	54.5	Alphard	217 48.1	S 8 45.8
12	222 15.2	4 06.8	S 14 59.3	324 29.0	S 24 48.1	100 21.3	N 21 41.0	142 40.5	N 22 22.5	237 14.5	S 8 42.6	354 29.2	S 21 36.3	54.6			
13	237 17.6	19 06.8	S 15 00.1	339 28.2	S 24 48.5	115 22.8	N 21 40.9	157 43.2	N 22 22.4	252 17.0	S 8 42.7	9 00.9	S 21 46.2	54.6	Alphecca	126 04.2	N 26 38.0
14	252 20.1	34 06.8	S 15 00.9	354 27.4	S 24 48.8	130 24.3	N 21 40.8	172 45.9	N 22 22.4	267 19.5	S 8 42.7	23 32.5	S 21 56.0	54.6	Alpheratz	357 34.7	N 29 13.8
15	267 22.6	49 06.8	S 15 01.7	9 26.6	S 24 49.2	145 25.8	N 21 40.7	187 48.6	N 22 22.4	282 22.1	S 8 42.7	38 04.0	S 22 05.7	54.6	Altair	62 00.2	N 8 56.2
16	282 25.0	64 06.8	S 15 02.5	24 25.8	S 24 49.5	160 27.3	N 21 40.6	202 51.2	N 22 22.4	297 24.6	S 8 42.7	52 35.5	S 22 15.4	54.6	Ankaa	353 06.9	S 42 10.3
17	297 27.5	79 06.8	S 15 03.3	39 24.9	S 24 49.9	175 28.9	N 21 40.5	217 53.9	N 22 22.4	312 27.1	S 8 42.7	67 06.8	S 22 24.9	54.6	Antares	112 16.4	S 26 29.2
18	312 30.0	94 06.8	S 15 04.0	54 24.1	S 24 50.2	190 30.4	N 21 40.4	232 56.6	N 22 22.4	327 29.6	S 8 42.7	81 38.1	S 22 34.3	54.6			
19	327 32.4	109 06.8	S 15 04.8	69 23.3	S 24 50.6	205 31.9	N 21 40.3	247 59.3	N 22 22.4	342 32.1	S 8 42.8	96 09.3	S 22 43.7	54.6	Arcturus	145 48.4	N 19 03.3
20	342 34.9	124 06.8	S 15 05.6	84 22.5	S 24 50.9	220 33.4	N 21 40.2	263 01.9	N 22 22.4	357 34.7	S 8 42.8	110 40.4	S 22 52.9	54.7	Atria	107 11.2	S 69 04.5
21	357 37.3	139 06.8	S 15 06.4	99 21.7	S 24 51.2	235 34.9	N 21 40.1	278 04.6	N 22 22.3	12 37.2	S 8 42.8	125 11.5	S 23 02.1	54.7	Avior	234 14.9	S 59 34.9
22	12 39.8	154 06.8	S 15 07.2	114 20.8	S 24 51.6	250 36.5	N 21 40.0	293 07.3	N 22 22.3	27 39.7	S 8 42.8	139 42.4	S 23 11.1	54.7	Bellatrix	278 22.9	N 6 22.4
23	27 42.3	169 06.8	S 15 07.9	129 20.0	S 24 51.9	265 38.0	N 21 39.9	308 10.0	N 22 22.3	42 42.2	S 8 42.8	154 13.3	S 23 20.1	54.7	Betelgeuse	270 52.1	N 7 24.8
03 00	42 44.7	184 06.8	S 15 08.7	144 19.2	S 24 52.3	280 39.5	N 21 39.8	323 12.7	N 22 22.3	57 44.7	S 8 42.8	168 44.0	S 23 28.9	54.7	Canopus	263 52.3	S 52 42.1
01	57 47.2	199 06.8	S 15 09.5	159 18.4	S 24 52.6	295 41.0	N 21 39.7	338 15.3	N 22 22.3	72 47.2	S 8 42.8	183 14.7	S 23 37.6	54.7	Capella	280 21.9	N 46 01.3
02	72 49.7	214 06.8	S 15 10.3	174 17.5	S 24 52.9	310 42.6	N 21 39.6	353 18.0	N 22 22.3	87 49.8	S 8 42.9	197 45.3	S 23 46.3	54.7	Castor	245 57.3	N 31 50.0
03	87 52.1	229 06.8	S 15 11.0	189 16.7	S 24 53.3	325 44.1	N 21 39.4	8 20.7	N 22 22.3	102 52.3	S 8 42.9	212 15.8	S 23 54.8	54.8	Deneb	49 25.9	N 45 22.4
04	102 54.6	244 06.8	S 15 11.8	204 15.9	S 24 53.6	340 45.6	N 21 39.3	23 23.4	N 22 22.2	117 54.8	S 8 42.9	226 46.3	S 24 03.2	54.8	Denebola	182 25.4	N 44 26.1
05	117 57.1	259 06.8	S 15 12.6	219 15.1	S 24 53.9	355 47.1	N 21 39.2	38 26.1	N 22 22.2	132 57.3	S 8 42.9	241 16.6	S 24 11.6	54.8			
06	132 59.5	274 06.8	S 15 13.4	234 14.3	S 24 54.3	10 48.7	N 21 39.1	53 28.8	N 22 22.2	147 59.8	S 8 42.9	255 46.9	S 24 19.8	54.8	Diphda	348 47.2	S 17 51.0
07	148 02.0	289 06.8	S 15 14.2	249 13.4	S 24 54.6	25 50.2	N 21 39.0	68 31.4	N 22 22.2	163 02.3	S 8 42.9	270 17.1	S 24 27.9	54.8	Dubhe	193 41.7	N 61 36.9
08	163 04.4	304 06.8	S 15 14.9	264 12.6	S 24 54.9	40 51.7	N 21 38.9	83 34.1	N 22 22.2	178 04.9	S 8 43.0	284 47.1	S 24 35.8	54.8	Elnath	278 01.9	N 28 37.7
09	178 06.9	319 06.8	S 15 15.7	279 11.8	S 24 55.2	55 53.3	N 21 38.8	98 36.8	N 22 22.2	193 07.4	S 8 43.0	299 17.2	S 24 43.7	54.8	Etamin	90 42.5	N 51 29.3
10	193 09.4	334 06.8	S 15 16.5	294 11.0	S 24 55.6	70 54.8	N 21 38.7	113 39.5	N 22 22.2	208 09.9	S 8 43.0	313 47.1	S 24 51.5	54.9	Enif	33 38.9	N 9 59.5
11	208 11.8	349 06.8	S 15 17.2	309 10.1	S 24 55.9	85 56.3	N 21 38.6	128 42.2	N 22 22.2	223 12.4	S 8 43.0	328 16.9	S 24 59.1	54.9			
12	223 14.3	4 06.8	S 15 18.0	324 09.3	S 24 56.2	100 57.9	N 21 38.5	143 44.8	N 22 22.1	238 14.9	S 8 43.0	342 46.7	S 25 06.7	54.9	Fomalhaut	15 14.5	S 29 29.5
13	238 16.8	19 06.7	S 15 18.8	339 08.5	S 24 56.5	115 59.4	N 21 38.4	158 47.5	N 22 22.1	253 17.4	S 8 43.0	357 16.4	S 25 14.1	54.9	Gacrux	171 52.5	S 57 14.9
14	253 19.2	34 06.7	S 15 19.6	354 07.7	S 24 56.9	131 00.9	N 21 38.3	173 50.2	N 22 22.1	268 20.0	S 8 43.0	11 45.9	S 25 21.4	54.9	Gienah	175 44.1	S 17 40.6
15	268 21.7	49 06.7	S 15 20.3	9 06.8	S 24 57.2	146 02.5	N 21 38.2	188 52.9	N 22 22.1	283 22.5	S 8 43.1	26 15.5	S 25 28.6	54.9	Hadar	148 37.0	S 60 29.5
16	283 24.2	64 06.7	S 15 21.1	24 06.0	S 24 57.5	161 04.0	N 21 38.1	203 55.6	N 22 22.1	298 25.0	S 8 43.1	40 44.9	S 25 35.6	54.9	Hamal	327 51.1	N 23 34.9
17	298 26.6	79 06.7	S 15 21.9	39 05.2	S 24 57.8	176 05.5	N 21 38.0	218 58.3	N 22 22.1	313 27.5	S 8 43.1	55 14.2	S 25 42.6	55.0			
18	313 29.1	94 06.7	S 15 22.7	54 04.4	S 24 58.1	191 07.1	N 21 37.9	234 01.0	N 22 22.1	328 30.0	S 8 43.1	69 43.5	S 25 49.4	55.0	Kaus aust.	83 32.9	S 34 22.4
19	328 31.6	109 06.7	S 15 23.4	69 03.5	S 24 58.4	206 08.6	N 21 37.8	249 03.6	N 22 22.0	343 32.5	S 8 43.1	84 12.7	S 25 56.1	55.0	Kochab	137 20.9	N 74 03.2
20	343 34.0	124 06.7	S 15 24.2	84 02.7	S 24 58.7	221 10.2	N 21 37.7	264 06.3	N 22 22.0	358 35.0	S 8 43.1	98 41.8	S 26 02.6	55.0	Markab	13 29.9	N 15 20.5
21	358 36.5	139 06.7	S 15 25.0	99 01.9	S 24 59.1	236 11.7	N 21 37.6	279 09.0	N 22 22.0	13 37.6	S 8 43.1	113 10.8	S 26 09.1	55.0	Menkar	314 06.0	N 4 11.3
22	13 38.9	154 06.7	S 15 25.7	114 01.0	S 24 59.4	251 13.2	N 21 37.5	294 11.7	N 22 22.0	28 40.1	S 8 43.2	127 39.8	S 26 15.4	55.0	Menkent	147 58.3	S 36 29.4
23	28 41.4	169 06.7	S 15 26.5	129 00.2	S 24 59.7	266 14.8	N 21 37.4	309 14.4	N 22 22.0	43 42.6	S 8 43.2	142 08.6	S 26 21.6	55.1			
04 00	43 43.9	184 06.7	S 15 27.3	143 59.4	S 25 00.0	281 16.3	N 21 37.3	324 17.1	N 22 22.0	58 45.1	S 8 43.2	156 37.4	S 26 27.7	55.1	Miaplacidus	221 38.7	S 69 48.7
01	58 46.3	199 06.6	S 15 28.0	158 58.6	S 25 00.3	296 17.9	N 21 37.2	339 19.8	N 22 22.0	73 47.6	S 8 43.2	171 06.1	S 26 33.6	55.1	Mirfak	308 28.1	N 49 56.9
02	73 48.8	214 06.6	S 15 28.8	173 57.7	S 25 00.6	311 19.4	N 21 37.1	354 22.5	N 22 21.9	88 50.1	S 8 43.2	185 34.8	S 26 39.4	55.1	Mizar	158 46.6	

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	OTTOBRE	25
d h	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "
05 00	44 43.0	184 06.3	S 15 45.6	143 39.5	S 25 07.0	281 53.6	N 21 34.9	325 21.7	N 22 21.6	59 45.4	S 8 43.5	143 47.5	S 28 12.4	55.5	NOME	360 - AR	Dec.	
01	59 45.5	199 06.3	S 15 46.3	158 38.7	S 25 07.3	296 55.2	N 21 34.8	340 24.4	N 22 21.6	74 47.9	S 8 43.5	158 14.6	S 28 15.0	55.5	Acamar	315 11.5	S 40 12.2	
02	74 47.9	214 06.3	S 15 47.1	173 37.8	S 25 07.6	311 56.8	N 21 34.8	355 27.1	N 22 21.6	89 50.4	S 8 43.5	172 41.8	S 28 17.4	55.6	Achernar	335 19.7	S 57 06.6	
03	89 50.4	229 06.2	S 15 47.8	188 37.0	S 25 07.8	326 58.3	N 21 34.7	10 29.8	N 22 21.6	104 52.9	S 8 43.5	187 08.8	S 28 19.7	55.6	Acruz	173 01.0	S 63 14.0	
04	104 52.9	244 06.2	S 15 48.6	203 36.2	S 25 08.1	341 59.9	N 21 34.6	25 32.5	N 22 21.6	119 55.4	S 8 43.5	201 35.8	S 28 21.8	55.6	Adhara	255 05.9	S 29 00.0	
05	119 55.3	259 06.2	S 15 49.3	218 35.3	S 25 08.4	357 01.5	N 21 34.5	40 35.1	N 22 21.6	134 57.9	S 8 43.5	216 02.8	S 28 23.8	55.6	Aldebaran	290 39.6	N 16 33.6	
06	134 57.8	274 06.2	S 15 50.1	233 34.5	S 25 08.6	12 03.0	N 21 34.4	55 37.8	N 22 21.5	150 00.4	S 8 43.6	230 29.7	S 28 25.6	55.6				
07	150 00.3	289 06.2	S 15 50.9	248 33.7	S 25 08.9	27 04.6	N 21 34.3	70 40.5	N 22 21.5	165 02.9	S 8 43.6	244 56.6	S 28 27.2	55.7	Alioth	166 13.6	N 55 49.5	
08	165 02.7	304 06.1	S 15 51.6	263 32.8	S 25 09.2	42 06.2	N 21 34.2	85 43.2	N 22 21.5	180 05.5	S 8 43.6	259 23.5	S 28 28.8	55.7	Alkaid	152 52.6	N 49 11.4	
09	180 05.2	319 06.1	S 15 52.4	278 32.0	S 25 09.5	57 07.7	N 21 34.1	100 45.9	N 22 21.5	195 08.0	S 8 43.6	273 50.3	S 28 30.1	55.7	Alnair	27 32.9	S 46 50.6	
10	195 07.7	334 06.1	S 15 53.1	293 31.2	S 25 09.7	72 09.3	N 21 34.0	115 48.6	N 22 21.5	210 10.5	S 8 43.6	288 17.0	S 28 31.3	55.7	Alnilam	275 37.7	S 1 11.0	
11	210 10.1	349 06.1	S 15 53.9	308 30.3	S 25 10.0	87 10.9	N 21 33.9	130 51.3	N 22 21.5	225 13.0	S 8 43.6	302 43.7	S 28 32.4	55.7	Alphard	217 48.1	S 8 45.8	
12	225 12.6	4 06.0	S 15 54.6	323 29.5	S 25 10.2	102 12.5	N 21 33.8	145 54.0	N 22 21.5	240 15.5	S 8 43.6	317 10.4	S 28 33.2	55.8				
13	240 15.1	19 06.0	S 15 55.4	338 28.7	S 25 10.5	117 14.0	N 21 33.7	160 56.7	N 22 21.4	255 18.0	S 8 43.6	331 37.1	S 28 34.0	55.8	Alphecca	126 04.2	N 26 38.0	
14	255 17.5	34 06.0	S 15 56.1	353 27.8	S 25 10.8	132 15.6	N 21 33.6	175 59.4	N 22 21.4	270 20.5	S 8 43.6	346 03.7	S 28 34.6	55.8	Alpheratz	357 34.7	N 29 13.8	
15	270 20.0	49 06.0	S 15 56.9	8 27.0	S 25 11.0	147 17.2	N 21 33.5	191 02.1	N 22 21.4	285 23.0	S 8 43.7	0 30.3	S 28 35.0	55.8	Altair	62 00.2	N 8 56.1	
16	285 22.4	64 06.0	S 15 57.6	23 26.2	S 25 11.3	162 18.8	N 21 33.4	206 04.8	N 22 21.4	300 25.5	S 8 43.7	14 56.9	S 28 35.2	55.8	Ankaa	353 06.9	S 42 10.3	
17	300 24.9	79 05.9	S 15 58.4	38 25.3	S 25 11.5	177 20.3	N 21 33.3	221 07.5	N 22 21.4	315 28.0	S 8 43.7	29 23.4	S 28 35.3	55.9	Antares	112 16.4	S 26 29.2	
18	315 27.4	94 05.9	S 15 59.1	53 24.5	S 25 11.8	192 21.9	N 21 33.2	236 10.2	N 22 21.4	330 30.5	S 8 43.7	43 49.9	S 28 35.3	55.9				
19	330 29.8	109 05.9	S 15 59.9	68 23.7	S 25 12.1	207 23.5	N 21 33.1	251 12.9	N 22 21.4	345 33.0	S 8 43.7	58 16.4	S 28 35.1	55.9	Arcturus	145 48.4	N 19 03.3	
20	345 32.3	124 05.8	S 16 00.6	83 22.8	S 25 12.3	222 25.1	N 21 33.0	266 15.6	N 22 21.3	0 35.5	S 8 43.7	72 42.9	S 28 34.7	55.9	Atria	107 11.2	S 69 04.5	
21	0 34.8	139 05.8	S 16 01.4	98 22.0	S 25 12.6	237 26.7	N 21 32.9	281 18.3	N 22 21.3	15 38.0	S 8 43.7	87 09.4	S 28 34.2	56.0	Avior	234 14.9	S 59 34.9	
22	15 37.2	154 05.8	S 16 02.1	113 21.2	S 25 12.8	252 28.3	N 21 32.8	296 11.0	N 22 21.3	30 40.6	S 8 43.7	101 35.8	S 28 33.5	56.0	Bellatrix	278 22.9	N 6 22.4	
23	30 39.7	169 05.8	S 16 02.9	128 20.3	S 25 13.1	267 29.8	N 21 32.7	311 23.7	N 22 21.3	45 43.1	S 8 43.7	116 02.2	S 28 32.6	56.0	Betelgeuse	270 52.1	N 7 24.8	
06 00	45 42.2	184 05.7	S 16 03.6	143 19.5	S 25 13.3	282 31.4	N 21 32.7	326 26.4	N 22 21.3	60 45.6	S 8 43.7	130 28.6	S 28 31.6	56.0	Canopus	263 52.2	S 52 42.2	
01	60 44.6	199 05.7	S 16 04.3	158 18.7	S 25 13.6	297 33.0	N 21 32.6	341 29.1	N 22 21.3	75 48.1	S 8 43.8	144 55.0	S 28 30.5	56.0	Capella	280 21.9	N 46 01.3	
02	75 47.1	214 05.7	S 16 05.1	173 17.8	S 25 13.8	312 34.6	N 21 32.5	356 31.8	N 22 21.3	90 50.6	S 8 43.8	159 21.4	S 28 29.1	56.1	Castor	245 57.2	N 31 50.0	
03	90 49.5	229 05.7	S 16 05.8	188 17.0	S 25 14.0	327 36.2	N 21 32.4	11 34.6	N 22 21.2	105 53.1	S 8 43.8	173 47.7	S 28 27.6	56.1	Deneb	49 25.9	N 45 22.4	
04	105 52.0	244 05.6	S 16 06.6	203 16.2	S 25 14.3	342 37.8	N 21 32.3	26 37.3	N 22 21.2	120 55.6	S 8 43.8	188 14.1	S 28 26.0	56.1	Denebola	182 25.4	N 44 26.1	
05	120 54.5	259 05.6	S 16 07.3	218 15.3	S 25 14.5	357 39.4	N 21 32.2	41 40.0	N 22 21.2	135 58.1	S 8 43.8	202 40.4	S 28 24.2	56.1				
06	135 56.9	274 05.6	S 16 08.1	233 14.5	S 25 14.8	12 40.9	N 21 32.1	56 42.7	N 22 21.2	151 00.6	S 8 43.8	217 06.7	S 28 22.2	56.2	Diphda	348 47.2	S 17 51.0	
07	150 59.4	289 05.5	S 16 08.8	248 13.6	S 25 15.0	27 42.5	N 21 32.0	71 45.4	N 22 21.2	166 03.1	S 8 43.8	231 33.1	S 28 20.1	56.2	Dubhe	193 41.6	N 61 36.9	
08	166 01.9	304 05.5	S 16 09.6	263 12.8	S 25 15.3	42 44.1	N 21 31.9	86 48.1	N 22 21.2	181 05.6	S 8 43.8	245 59.4	S 28 17.8	56.2	Elnath	278 01.9	N 28 37.7	
09	181 04.3	319 05.5	S 16 10.3	278 12.0	S 25 15.5	57 45.7	N 21 31.8	101 50.8	N 22 21.1	196 08.1	S 8 43.8	260 25.7	S 28 15.4	56.2	Etamin	90 42.6	N 51 29.3	
10	196 06.8	334 05.4	S 16 11.0	293 11.1	S 25 15.7	72 47.3	N 21 31.7	116 53.5	N 22 21.1	211 10.6	S 8 43.8	274 52.1	S 28 12.7	56.3	Enif	33 38.9	N 9 59.5	
11	211 09.3	349 05.4	S 16 11.8	308 10.3	S 25 16.0	87 48.9	N 21 31.6	131 56.2	N 22 21.1	226 13.1	S 8 43.9	289 18.4	S 28 10.0	56.3				
12	226 11.7	4 05.4	S 16 12.5	323 09.5	S 25 16.2	102 50.5	N 21 31.5	146 58.9	N 22 21.1	241 15.6	S 8 43.9	303 44.7	S 28 07.0	56.3	Fomalhaut	15 14.5	S 29 29.5	
13	241 14.2	19 05.4	S 16 13.3	338 08.6	S 25 16.4	117 52.1	N 21 31.4	162 01.6	N 22 21.1	256 18.1	S 8 43.9	318 11.1	S 28 03.9	56.3	Gacrux	171 52.5	S 57 14.9	
14	256 16.7	34 05.3	S 16 14.0	353 07.8	S 25 16.7	132 53.7	N 21 31.4	177 04.3	N 22 21.1	271 20.6	S 8 43.9	332 37.4	S 28 00.7	56.4	Gienah	175 44.1	S 17 40.6	
15	271 19.1	49 05.3	S 16 14.7	8 07.0	S 25 16.9	147 55.3	N 21 31.3	192 07.0	N 22 21.1	286 23.1	S 8 43.9	347 03.8	S 27 57.3	56.4	Hadar	148 37.0	S 60 29.5	
16	286 21.6	64 05.3	S 16 15.5	23 06.1	S 25 17.1	162 56.9	N 21 31.2	207 09.7	N 22 21.0	301 25.6	S 8 43.9	1 30.1	S 27 53.7	56.4	Hamal	327 51.1	N 23 34.9	
17	301 24.0	79 05.2	S 16 16.2	38 05.3	S 25 17.3	177 58.5	N 21 31.1	222 12.4	N 22 21.0	316 28.1	S 8 43.9	15 56.5	S 27 50.0	56.4				
18	316 26.5	94 05.2	S 16 17.0	53 04.4	S 25 17.6	193 00.1	N 21 31.0	237 15.1	N 22 21.0	331 30.6	S 8 43.9	30 22.9	S 27 46.1	56.5	Kaus aust.	83 32.9	S 34 22.4	
19	331 29.0	109 05.2	S 16 17.7	68 03.6	S 25 17.8	208 01.7	N 21 30.9	252 17.8	N 22 21.0	346 33.1	S 8 43.9	44 49.3	S 27 42.0	56.5	Kochab	137 20.9	N 74 03.2	
20	346 31.4	124 05.1	S 16 18.4	83 02.8	S 25 18.0	223 03.3	N 21 30.8	267 20.6	N 22 21.0	1 35.6	S 8 43.9	59 15.7	S 27 37.8	56.5	Markab	13 29.9	N 15 20.5	
21	1 33.9	139 05.1	S 16 19.2	98 01.9	S 25 18.2	238 04.9	N 21 30.7	282 23.3	N 22 21.0	16 38.1	S 8 43.9	73 42.2	S 27 33.5	56.5	Menkar	314 06.0	N 4 11.3	
22	16 36.4	154 05.0	S 16 19.9	113 01.1	S 25 18.5	253 06.5	N 21 30.6	297 26.0	N 22 21.0	31 40.7	S 8 44.0	88 08.6	S 27 28.9	56.6	Menkent	147 58.3	S 36 29.4	
23	31 38.8	169 05.0	S 16 20.6	128 00.3	S 25 18.7	268 08.1	N 21 30.5	312 28.7	N 22 20.9	46 43.2	S 8 44.0	102 35.1	S 27 24.2	56.6				
07 00	46 41.3	184 05.0	S 16 21.4	142 59.4	S 25 18.9	283 09.7	N 21 30.4	327 31.4	N 22 20.9	61 45.7	S 8 44.0	117 01.6	S 27 19.4	56.6	Miaplacidus	221 38.6	S 69 48.7	
01	61 43.8	199 04.9	S 16 22.1	157 58.6	S 25 19.1	298 11.3	N 21 30.4	342 34.1	N 22 20.9	76 48.2	S 8 44.							

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	OTTOBRE	28					
d h	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "					
08 00	47 40.4	184 04.0	S 16 38.9	142 39.3	S 25 23.8	283 48.5	N 21 28.3	328 36.5	N 22 20.5	62 45.6	S 8 44.1	103 47.0	S 24 36.9	57.3	NOME	360 - AR	Dec.
01	62 42.9	199 04.0	S 16 39.6	157 38.5	S 25 24.0	298 50.1	N 21 28.2	343 39.2	N 22 20.5	77 48.1	S 8 44.2	118 14.4	S 24 28.3	57.3	Acamar	315 11.5	S 40 12.2
02	77 45.4	214 03.9	S 16 40.3	172 37.6	S 25 24.1	313 51.7	N 21 28.2	358 42.0	N 22 20.5	92 50.6	S 8 44.2	132 41.9	S 24 19.5	57.3	Achernar	335 19.7	S 57 06.6
03	92 47.8	229 03.9	S 16 41.0	187 36.8	S 25 24.3	328 53.4	N 21 28.1	373 44.7	N 22 20.5	107 53.1	S 8 44.2	147 09.3	S 24 10.6	57.4	Acruz	173 01.0	S 63 14.0
04	107 50.3	244 03.8	S 16 41.7	202 35.9	S 25 24.5	343 55.0	N 21 28.0	428 47.4	N 22 20.5	122 55.6	S 8 44.2	161 36.9	S 24 01.5	57.4	Adhara	255 05.9	S 29 00.0
05	122 52.8	259 03.8	S 16 42.5	217 35.1	S 25 24.7	358 56.6	N 21 27.9	48 50.1	N 22 20.5	137 58.1	S 8 44.2	176 04.5	S 23 52.3	57.4	Aldebaran	290 39.6	N 16 33.6
06	137 55.2	274 03.7	S 16 43.2	232 34.3	S 25 24.9	373 58.3	N 21 27.8	58 52.8	N 22 20.4	153 00.6	S 8 44.2	190 32.1	S 23 42.9	57.4			
07	152 57.7	289 03.7	S 16 43.9	247 33.4	S 25 25.0	388 59.9	N 21 27.7	73 55.5	N 22 20.4	168 03.1	S 8 44.2	204 59.8	S 23 33.5	57.5	Alioth	166 13.6	N 55 49.5
08	168 00.2	304 03.6	S 16 44.6	262 32.6	S 25 25.2	403 01.5	N 21 27.6	88 58.3	N 22 20.4	183 05.6	S 8 44.2	219 27.5	S 23 23.8	57.5	Alkaid	152 52.6	N 49 11.4
09	183 02.6	319 03.6	S 16 45.3	277 31.7	S 25 25.4	418 03.2	N 21 27.6	104 01.0	N 22 20.4	198 08.1	S 8 44.2	233 55.3	S 23 14.1	57.5	Alnair	27 32.9	S 46 50.6
10	198 05.1	334 03.5	S 16 46.1	292 30.9	S 25 25.6	433 04.8	N 21 27.5	119 03.7	N 22 20.4	213 10.6	S 8 44.2	248 23.1	S 23 04.2	57.6	Alnilam	275 37.7	S 1 11.0
11	213 07.5	349 03.5	S 16 46.8	307 30.1	S 25 25.8	448 06.4	N 21 27.4	134 06.4	N 22 20.4	228 13.1	S 8 44.2	262 51.0	S 22 54.2	57.6	Alphard	217 48.0	S 8 45.8
12	228 10.0	4 03.4	S 16 47.5	322 29.2	S 25 25.9	463 08.1	N 21 27.3	149 09.1	N 22 20.3	243 15.6	S 8 44.2	277 18.9	S 22 44.0	57.6			
13	243 12.5	19 03.4	S 16 48.2	337 28.4	S 25 26.1	478 09.7	N 21 27.2	164 11.9	N 22 20.3	258 18.1	S 8 44.2	291 46.9	S 22 33.7	57.7	Alphecca	126 04.2	N 26 38.0
14	258 14.9	34 03.3	S 16 48.9	352 27.5	S 25 26.3	493 11.3	N 21 27.1	179 14.6	N 22 20.3	273 20.6	S 8 44.2	306 15.0	S 22 23.3	57.7	Alpheratz	357 34.7	N 29 13.8
15	273 17.4	49 03.3	S 16 49.6	7 26.7	S 25 26.4	508 13.0	N 21 27.0	194 17.3	N 22 20.3	288 23.1	S 8 44.2	320 43.1	S 22 12.7	57.7	Altair	62 00.2	N 8 56.1
16	288 19.9	64 03.2	S 16 50.4	22 25.9	S 25 26.6	523 14.6	N 21 27.0	209 20.0	N 22 20.3	303 25.6	S 8 44.2	335 11.2	S 22 02.0	57.7	Ankaa	353 06.9	S 42 10.3
17	303 22.3	79 03.2	S 16 51.1	37 25.0	S 25 26.8	538 16.3	N 21 26.9	224 22.8	N 22 20.3	318 28.1	S 8 44.3	349 39.4	S 21 51.2	57.8	Antares	112 16.4	S 26 29.2
18	318 24.8	94 03.1	S 16 51.8	52 24.2	S 25 26.9	553 17.9	N 21 26.8	239 25.5	N 22 20.3	333 30.6	S 8 44.3	4 07.6	S 21 40.2	57.8			
19	333 27.3	109 03.1	S 16 52.5	67 23.3	S 25 27.1	568 19.5	N 21 26.7	254 28.2	N 22 20.2	348 33.1	S 8 44.3	18 35.9	S 21 29.1	57.8	Arcturus	145 48.4	N 19 03.3
20	348 29.7	124 03.0	S 16 53.2	82 22.5	S 25 27.3	583 21.2	N 21 26.6	269 30.9	N 22 20.2	3 35.6	S 8 44.3	33 04.3	S 21 17.9	57.9	Atria	107 11.2	S 69 04.4
21	3 32.2	139 03.0	S 16 53.9	97 21.6	S 25 27.4	598 22.8	N 21 26.5	284 33.6	N 22 20.2	18 38.1	S 8 44.3	47 32.7	S 21 06.6	57.9	Avior	234 14.8	S 59 34.9
22	18 34.6	154 02.9	S 16 54.6	112 20.8	S 25 27.6	613 24.5	N 21 26.5	299 36.4	N 22 20.2	33 40.6	S 8 44.3	62 01.1	S 20 55.1	57.9	Bellatrix	278 22.9	N 6 22.4
23	33 37.1	169 02.9	S 16 55.4	127 20.0	S 25 27.8	628 26.1	N 21 26.4	314 39.1	N 22 20.2	48 43.1	S 8 44.3	76 29.6	S 20 43.6	58.0	Betelgeuse	270 52.1	N 7 24.8
09 00	48 39.6	184 02.8	S 16 56.1	142 19.1	S 25 27.9	643 27.8	N 21 26.3	329 41.8	N 22 20.2	63 45.5	S 8 44.3	90 58.2	S 20 31.8	58.0	Canopus	263 52.2	S 52 42.2
01	63 42.0	199 02.8	S 16 56.8	157 18.3	S 25 28.1	658 29.4	N 21 26.2	344 44.5	N 22 20.1	78 48.0	S 8 44.3	105 26.8	S 20 20.0	58.0	Capella	280 21.8	N 46 01.3
02	78 44.5	214 02.7	S 16 57.5	172 17.4	S 25 28.2	673 31.1	N 21 26.1	359 47.3	N 22 20.1	93 50.5	S 8 44.3	119 55.5	S 20 08.1	58.1	Castor	245 57.2	N 31 50.0
03	93 47.0	229 02.7	S 16 58.2	187 16.6	S 25 28.4	688 32.7	N 21 26.1	374 50.0	N 22 20.1	108 53.0	S 8 44.3	134 24.2	S 19 56.0	58.1	Deneb	49 25.9	N 45 22.4
04	108 49.4	244 02.6	S 16 58.9	202 15.8	S 25 28.5	703 34.4	N 21 26.0	389 52.7	N 22 20.1	123 55.5	S 8 44.3	148 52.9	S 19 43.8	58.1	Denebola	182 25.4	N 44 26.1
05	123 51.9	259 02.6	S 16 59.6	217 14.9	S 25 28.7	718 36.0	N 21 25.9	404 55.4	N 22 20.1	138 58.0	S 8 44.3	163 21.7	S 19 31.5	58.1			
06	138 54.4	274 02.5	S 17 00.3	232 14.1	S 25 28.8	733 37.7	N 21 25.8	419 58.2	N 22 20.1	154 00.5	S 8 44.3	177 50.6	S 19 19.1	58.2	Diphda	348 47.2	S 17 51.0
07	153 56.8	289 02.4	S 17 01.0	247 13.2	S 25 29.0	748 39.3	N 21 25.7	434 00.9	N 22 20.0	169 03.0	S 8 44.3	192 19.5	S 19 06.5	58.2	Dubhe	193 41.6	N 61 36.9
08	168 59.3	304 02.4	S 17 01.7	262 12.4	S 25 29.1	763 41.0	N 21 25.6	449 03.6	N 22 20.0	184 05.5	S 8 44.3	206 48.5	S 18 53.9	58.2	Elnath	278 01.8	N 28 37.7
09	184 01.8	319 02.3	S 17 02.4	277 11.6	S 25 29.3	778 42.6	N 21 25.6	464 06.3	N 22 20.0	199 08.0	S 8 44.3	221 17.5	S 18 41.1	58.3	Etamin	90 42.6	N 51 29.3
10	199 04.2	334 02.3	S 17 03.2	292 10.7	S 25 29.4	789 44.3	N 21 25.5	479 09.1	N 22 20.0	214 10.5	S 8 44.3	235 46.5	S 18 28.2	58.3	Enif	33 38.9	N 9 59.5
11	214 06.7	349 02.2	S 17 03.9	307 09.9	S 25 29.6	804 46.0	N 21 25.4	494 11.8	N 22 20.0	229 13.0	S 8 44.3	250 15.6	S 18 15.2	58.3			
12	229 09.1	4 02.2	S 17 04.6	322 09.0	S 25 29.7	819 47.6	N 21 25.3	509 14.5	N 22 20.0	244 15.5	S 8 44.3	264 44.8	S 18 02.1	58.4	Fomalhaut	15 14.5	S 29 29.5
13	244 11.6	19 02.1	S 17 05.3	337 08.2	S 25 29.8	834 49.3	N 21 25.2	524 17.3	N 22 19.9	259 17.9	S 8 44.3	279 14.0	S 17 48.9	58.4	Gacrux	171 52.4	S 57 14.9
14	259 14.1	34 02.0	S 17 06.0	352 07.4	S 25 30.0	849 50.9	N 21 25.2	539 20.0	N 22 19.9	274 20.4	S 8 44.4	293 43.2	S 17 35.6	58.4	Gienah	175 44.1	S 17 40.6
15	274 16.5	49 02.0	S 17 06.7	7 06.5	S 25 30.1	864 52.6	N 21 25.1	554 22.7	N 22 19.9	289 22.9	S 8 44.4	308 12.5	S 17 22.2	58.5	Hadar	148 37.0	S 60 29.5
16	289 19.0	64 01.9	S 17 07.4	22 05.7	S 25 30.3	879 54.3	N 21 25.0	569 25.4	N 22 19.9	304 25.4	S 8 44.4	322 41.8	S 17 08.7	58.5	Hamal	327 51.1	N 23 34.9
17	304 21.5	79 01.9	S 17 08.1	37 04.8	S 25 30.4	894 55.9	N 21 24.9	584 28.2	N 22 19.9	319 27.9	S 8 44.4	337 11.2	S 16 55.0	58.5			
18	319 23.9	94 01.8	S 17 08.8	52 04.0	S 25 30.5	909 57.6	N 21 24.8	600 30.9	N 22 19.9	334 30.4	S 8 44.4	351 40.6	S 16 41.3	58.5	Kaus aust.	83 33.0	S 34 22.4
19	334 26.4	109 01.7	S 17 09.5	67 03.1	S 25 30.7	924 59.2	N 21 24.8	615 33.6	N 22 19.8	349 32.9	S 8 44.4	6 10.1	S 16 27.4	58.6	Kochab	137 20.9	N 74 03.2
20	349 28.9	124 01.7	S 17 10.2	82 02.3	S 25 30.8	939 60.9	N 21 24.7	630 36.4	N 22 19.8	4 35.4	S 8 44.4	20 39.6	S 16 13.5	58.6	Markab	13 29.9	N 15 20.5
21	4 31.3	139 01.6	S 17 10.9	97 01.5	S 25 30.9	954 62.6	N 21 24.6	645 39.1	N 22 19.8	19 37.9	S 8 44.4	35 09.2	S 15 59.5	58.6	Menkar	314 06.0	N 4 11.3
22	19 33.8	154 01.6	S 17 11.6	112 00.6	S 25 31.1	969 64.2	N 21 24.5	660 41.8	N 22 19.8	34 40.4	S 8 44.4	49 38.8	S 15 45.3	58.7	Menkent	147 58.3	S 36 29.4
23	34 36.3	169 01.5	S 17 12.3	126 59.8	S 25 31.2	984 65.9	N 21 24.5	675 44.5	N 22 19.8	49 42.9	S 8 44.4	64 08.4	S 15 31.1	58.7			
10 00	49 38.7	184 01.4	S 17 13.0	141 58.9	S 25 31.3	1000 67.6	N 21 24.4	690 47.3	N 22 19.8	64 45.3	S 8 44.4	78 38.1	S 15 16.7	58.7	Miaplacidus	221 38.6	S 69 48.7
01	64 41.2	199 01.4	S 17 13.7	156 58.1	S 25 31.4	1015 69.3	N 21 24.3	705 50.0	N 22 19.7	79 47.8	S 8 44.4	93 07.8	S 15 02.3	58.8	Mirfak	308 28.1	N 49 57.0
02	79 43.6	214 01.3	S 17 14.4	171 57.3	S 25 31.6	1030 71.0	N 21 24.2	720 52.7	N 22 19.7	94 50.3	S 8 44.4	107 37.6	S 14 47.8	58.8	Mizar	1	

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	OTTOBRE	31
11 00	50 37.9	183 59.9 S 17 29.6	141 38.8 S 25 34.0	285 47.9 N 21 22.5	331 52.9 N 22 19.3	65 45.0 S 8 44.4	66 40.1 S 9 07.2	59.5	NOME	360	- AR	Dec.
01	65 40.3	198 59.8 S 17 30.3	156 37.9 S 25 34.1	300 49.6 N 21 22.5	346 55.6 N 22 19.3	80 47.5 S 8 44.4	81 10.5 S 8 50.8	59.5	Acamar	315 11.5	S 40	12.2
02	80 42.8	213 59.7 S 17 31.0	171 37.1 S 25 34.2	315 51.3 N 21 22.4	1 58.4 N 22 19.3	95 50.0 S 8 44.5	95 40.9 S 8 34.5	59.5	Achernar	335 19.7	S 57	06.6
03	95 45.2	228 59.6 S 17 31.7	186 36.2 S 25 34.3	330 53.0 N 21 22.3	17 01.1 N 22 19.3	110 52.5 S 8 44.5	110 11.3 S 8 18.0	59.5	Acrux	173 01.0	S 63	14.0
04	110 47.7	243 59.6 S 17 32.3	201 35.4 S 25 34.4	345 54.7 N 21 22.3	32 03.8 N 22 19.3	125 55.0 S 8 44.5	124 41.8 S 8 01.5	59.6	Adhara	255 05.9	S 29	00.1
05	125 50.2	258 59.5 S 17 33.0	216 34.6 S 25 34.5	0 56.4 N 21 22.2	47 06.6 N 22 19.2	140 57.5 S 8 44.5	139 12.2 S 7 44.9	59.6	Aldebaran	290 39.5	N 16	33.6
06	140 52.6	273 59.4 S 17 33.7	231 33.7 S 25 34.6	15 58.1 N 21 22.1	62 09.3 N 22 19.2	156 00.0 S 8 44.5	153 42.6 S 7 28.3	59.6				
07	155 55.1	288 59.3 S 17 34.4	246 32.9 S 25 34.6	30 59.8 N 21 22.0	77 12.1 N 22 19.2	171 02.4 S 8 44.5	168 13.1 S 7 11.7	59.7	Alioth	166 13.6	N 55	49.5
08	170 57.6	303 59.3 S 17 35.1	261 32.0 S 25 34.7	46 01.5 N 21 22.0	92 14.8 N 22 19.2	186 04.9 S 8 44.5	182 43.6 S 6 54.9	59.7	Alkaid	152 52.6	N 49	11.4
09	186 00.0	318 59.2 S 17 35.8	276 31.2 S 25 34.8	61 03.2 N 21 21.9	107 17.5 N 22 19.2	201 07.4 S 8 44.5	197 14.0 S 6 38.1	59.7	Alnair	27 32.9	S 46	50.6
10	201 02.5	333 59.1 S 17 36.4	291 30.3 S 25 34.9	76 04.9 N 21 21.8	122 20.3 N 22 19.2	216 09.9 S 8 44.5	211 44.5 S 6 21.3	59.7	Alnilam	275 37.7	S 1	11.0
11	216 05.0	348 59.1 S 17 37.1	306 29.5 S 25 35.0	91 06.6 N 21 21.7	137 23.0 N 22 19.1	231 12.4 S 8 44.5	226 15.0 S 6 04.4	59.8	Alphard	217 48.0	S 8	45.8
12	231 07.4	3 59.0 S 17 37.8	321 28.7 S 25 35.1	106 08.3 N 21 21.7	152 25.8 N 22 19.1	246 14.9 S 8 44.5	240 45.5 S 5 47.5	59.8				
13	246 09.9	18 58.9 S 17 38.5	336 27.8 S 25 35.2	121 10.0 N 21 21.6	167 28.5 N 22 19.1	261 17.3 S 8 44.5	255 15.9 S 5 30.5	59.8	Alphecca	126 04.2	N 26	38.0
14	261 12.4	33 58.8 S 17 39.2	351 27.0 S 25 35.2	136 11.7 N 21 21.5	182 31.2 N 22 19.1	276 19.8 S 8 44.5	269 46.4 S 5 13.5	59.8	Alpheratz	357 34.7	N 29	13.8
15	276 14.8	48 58.8 S 17 39.8	6 26.1 S 25 35.3	151 13.4 N 21 21.5	197 34.0 N 22 19.1	291 22.3 S 8 44.5	284 16.9 S 4 56.5	59.9	Altair	62 00.2	N 8	56.1
16	291 17.3	63 58.7 S 17 40.5	21 25.3 S 25 35.4	166 15.1 N 21 21.4	212 36.7 N 22 19.1	306 24.8 S 8 44.5	298 47.4 S 4 39.4	59.9	Ankaa	353 07.0	S 42	10.3
17	306 19.7	78 58.6 S 17 41.2	36 24.5 S 25 35.5	181 16.8 N 21 21.3	227 39.5 N 22 19.0	321 27.3 S 8 44.5	313 17.8 S 4 22.2	59.9	Antares	112 16.4	S 26	29.2
18	321 22.2	93 58.5 S 17 41.9	51 23.6 S 25 35.5	196 18.5 N 21 21.3	242 42.2 N 22 19.0	336 29.8 S 8 44.5	327 48.3 S 4 05.0	60.0				
19	336 24.7	108 58.4 S 17 42.5	66 22.8 S 25 35.6	211 20.2 N 21 21.2	257 45.0 N 22 19.0	351 32.2 S 8 44.5	342 18.8 S 3 47.8	60.0	Arcturus	145 48.4	N 19	03.3
20	351 27.1	123 58.4 S 17 43.2	81 21.9 S 25 35.7	226 21.9 N 21 21.1	272 47.7 N 22 19.0	6 34.7 S 8 44.5	356 49.2 S 3 30.6	60.0	Atria	107 11.2	S 69	04.4
21	6 29.6	138 58.3 S 17 43.9	96 21.1 S 25 35.8	241 23.7 N 21 21.0	287 50.4 N 22 19.0	21 37.2 S 8 44.5	11 19.6 S 3 13.3	60.0	Avior	234 14.8	S 59	34.9
22	21 32.1	153 58.2 S 17 44.6	111 20.3 S 25 35.8	256 25.4 N 21 21.0	302 53.2 N 22 18.9	36 39.7 S 8 44.5	25 50.1 S 2 56.0	60.1	Bellatrix	278 22.8	N 6	22.4
23	36 34.5	168 58.1 S 17 45.3	126 19.4 S 25 35.9	271 27.1 N 21 20.9	317 55.9 N 22 18.9	51 42.2 S 8 44.5	40 20.5 S 2 38.6	60.1	Betelgeuse	270 52.1	N 7	24.8
12 00	51 37.0	183 58.1 S 17 45.9	141 18.6 S 25 36.0	286 28.8 N 21 20.8	332 58.7 N 22 18.9	66 44.7 S 8 44.5	54 50.9 S 2 21.2	60.1	Canopus	263 52.2	S 52	42.2
01	66 39.5	198 58.0 S 17 46.6	156 17.7 S 25 36.0	301 30.5 N 21 20.8	348 01.4 N 22 18.9	81 47.1 S 8 44.5	69 21.3 S 2 03.8	60.1	Capella	280 21.8	N 46	01.3
02	81 41.9	213 57.9 S 17 47.3	171 16.9 S 25 36.1	316 32.2 N 21 20.7	3 04.2 N 22 18.9	96 49.6 S 8 44.5	83 51.7 S 1 46.4	60.2	Castor	245 57.2	N 31	50.0
03	96 44.4	228 57.8 S 17 47.9	186 16.1 S 25 36.1	331 33.9 N 21 20.6	18 06.9 N 22 18.9	111 52.1 S 8 44.5	98 22.0 S 1 28.9	60.2	Deneb	49 25.9	N 45	22.4
04	111 46.8	243 57.7 S 17 48.6	201 15.2 S 25 36.2	346 35.7 N 21 20.6	33 09.7 N 22 18.8	126 54.6 S 8 44.5	112 52.3 S 1 11.5	60.2	Denebola	182 25.4	N 44	26.1
05	126 49.3	258 57.7 S 17 49.3	216 14.4 S 25 36.3	1 37.4 N 21 20.5	48 12.4 N 22 18.8	141 57.1 S 8 44.5	127 52.7 S 0 54.0	60.2				
06	141 51.8	273 57.6 S 17 50.0	231 13.5 S 25 36.3	16 39.1 N 21 20.4	63 15.1 N 22 18.8	156 59.5 S 8 44.5	141 53.0 S 0 36.4	60.2	Diphda	348 47.2	S 17	51.0
07	156 54.2	288 57.5 S 17 50.6	246 12.7 S 25 36.4	31 40.8 N 21 20.4	78 17.9 N 22 18.8	172 02.0 S 8 44.5	156 23.2 S 0 18.9	60.3	Dubhe	193 41.6	N 61	36.8
08	171 56.7	303 57.4 S 17 51.3	261 11.9 S 25 36.4	46 42.5 N 21 20.3	93 20.6 N 22 18.8	187 04.5 S 8 44.5	170 53.5 S 0 01.4	60.3	Elnath	278 01.8	N 28	37.7
09	186 59.2	318 57.3 S 17 52.0	276 11.0 S 25 36.5	61 44.3 N 21 20.2	108 23.4 N 22 18.7	202 07.0 S 8 44.5	185 23.7 N 0 16.2	60.3	Etamin	90 42.6	N 51	29.3
10	202 01.6	333 57.2 S 17 52.6	291 10.2 S 25 36.6	76 46.0 N 21 20.1	123 26.1 N 22 18.7	217 09.5 S 8 44.5	199 53.9 N 0 33.8	60.3	Enif	33 38.9	N 9	59.4
11	217 04.1	348 57.2 S 17 53.3	306 09.4 S 25 36.6	91 47.7 N 21 20.1	138 28.9 N 22 18.7	232 11.9 S 8 44.5	214 24.1 N 0 51.4	60.4				
12	232 06.6	3 57.1 S 17 54.0	321 08.5 S 25 36.7	106 49.4 N 21 20.0	153 31.6 N 22 18.7	247 14.4 S 8 44.5	228 54.2 N 1 09.0	60.4	Fomalhaut	15 14.5	S 29	29.5
13	247 09.0	18 57.0 S 17 54.6	336 07.7 S 25 36.7	121 51.2 N 21 19.9	168 34.4 N 22 18.7	262 16.9 S 8 44.5	243 24.3 N 1 26.6	60.4	Gacrux	171 52.4	S 57	14.9
14	262 11.5	33 56.9 S 17 55.3	351 06.8 S 25 36.8	136 52.9 N 21 19.9	183 37.1 N 22 18.6	277 19.4 S 8 44.5	257 54.4 N 1 44.2	60.4	Gienah	175 44.1	S 17	40.6
15	277 14.0	48 56.8 S 17 56.0	6 06.0 S 25 36.8	151 54.6 N 21 19.8	198 39.9 N 22 18.6	292 21.9 S 8 44.5	272 24.4 N 2 01.8	60.4	Hadar	148 37.0	S 60	29.5
16	292 16.4	63 56.7 S 17 56.6	21 05.2 S 25 36.8	166 56.3 N 21 19.7	213 42.6 N 22 18.6	307 24.3 S 8 44.5	286 54.4 N 2 19.4	60.5	Hamal	327 51.1	N 23	34.9
17	307 18.9	78 56.7 S 17 57.3	36 04.3 S 25 36.9	181 58.1 N 21 19.7	228 45.4 N 22 18.6	322 26.8 S 8 44.5	301 24.4 N 2 37.0	60.5				
18	322 21.3	93 56.6 S 17 58.0	51 03.5 S 25 36.9	196 59.8 N 21 19.6	243 48.1 N 22 18.6	337 29.3 S 8 44.5	315 54.3 N 2 54.6	60.5	Kaus aust.	83 33.0	S 34	22.4
19	337 23.8	108 56.5 S 17 58.6	66 02.6 S 25 37.0	212 01.5 N 21 19.6	258 50.9 N 22 18.6	352 31.8 S 8 44.4	330 24.2 N 3 12.2	60.5	Kochab	137 20.9	N 74	03.2
20	352 26.3	123 56.4 S 17 59.3	81 01.8 S 25 37.0	227 03.3 N 21 19.5	273 53.6 N 22 18.5	7 34.2 S 8 44.4	344 54.0 N 3 29.8	60.5	Markab	13 29.9	N 15	20.5
21	7 28.7	138 56.3 S 17 59.9	96 01.0 S 25 37.1	242 05.0 N 21 19.4	288 56.4 N 22 18.5	22 36.7 S 8 44.4	359 23.9 N 3 47.4	60.5	Menkar	314 06.0	N 4	11.3
22	22 31.2	153 56.2 S 18 00.6	111 00.1 S 25 37.1	257 06.7 N 21 19.4	303 59.1 N 22 18.5	37 39.2 S 8 44.4	13 53.6 N 4 05.0	60.6	Menkent	147 58.3	S 36	29.4
23	37 33.7	168 56.1 S 18 01.3	125 59.3 S 25 37.1	272 08.5 N 21 19.3	319 01.9 N 22 18.5	52 41.7 S 8 44.4	28 23.3 N 4 22.6	60.6				
13 00	52 36.1	183 56.0 S 18 01.9	140 58.5 S 25 37.2	287 10.2 N 21 19.2	334 04.6 N 22 18.5	67 44.2 S 8 44.4	42 53.0 N 4 40.2	60.6	Miaplacidus	221 38.5	S 69	48.7
01	67 38.6	198 56.0 S 18 02.6	155 57.6 S 25 37.2	302 11.9 N 21 19.2	349 07.4 N 22 18.4	82 46.6 S 8 44.4	57 22.6 N 4 57.7	60.6	Mirfak	308 28.0	N 49	57.0
02	82 41.1	213 55.9 S 18 03.3	170 56.8 S 25 37.2	317 13.7 N 21 19.1	4 10.1 N 22 18.4	97 49.1 S 8 44.4	71 52.2 N 5 15.2	60.6	Mizar	158 46.5	S 54	47.7
03	97 43.5	228 55.8 S 18 03.9	185 55.9 S 25 37.3	332 15.4 N 21 19.0	19 12.9 N 22 18.4	112 51.6 S 8 44.4	86 21.7 N 5 32.7	60.6	Nunki	75 48.1	S 26	16.0
04	112 46.0	243 55.7 S 18 04.6	200 55.1 S 25 37.3	347 17.2 N 21 19.0	34 15.6 N 22 18.4	127 54.1 S 8 44.4	100 51.2 N 5 50.2	60.7	Peacock	53 06.0	S 56	39.5
05	127 48.4	258 55.6 S 18 05.2	215 54.3 S 25 37.3	2 18.9 N 21 18.9	49 18.4 N 22 18.4	142 56.5 S 8 44.4	115 20.6 N 6 07.7	60.7	Polaris	313 39.3	N 89	22.1
06	142 50.9	273 55.5 S 18 05.9	230 53.4 S 25 37.4	17 20.6 N 21 18.8	64 21.1 N 22 18.4	157 59.0 S 8 44.4	129 50.0 N 6 25.1	60.7	Pollux	243 17.5	N 27	57.9
07	157 53.4	288 55.4 S 18 06.5	245 52.6 S 25 37.4	32 22.4 N 21 18.8	79 23.9 N 22 18.3	173 01.5 S 8 44.4	144 19.3 N 6 42.5	60.7	Procyon	244 50.9	N 5	09.8
08	172 55.8	303 55.3 S 18 07.2	260 51.8 S 25 37.4	47 24.1 N 21 18.7	94 26.6 N 22 18.3	188 04.0 S 8 44.4	158 48.6 N 6 59.9	60.7	Rasalhague	95 59.0	N 12	32.6
09	187 58.3	318 55.2 S 18 07.9	275 50.9 S 25 37.4	62 25.9 N 21 18.7	109 29.4 N 22 18.3	203 06.4 S 8 44.						

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	NOVEMBRE	01
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
14 00	53 35.3	183 53.8	S 18 17.6	140 38.4	S 25 37.7	287 52.2	N 21 17.7	335 10.7	N 22 18.0	68 43.6	S 8 44.4	30 28.0	N 11 32.6	60.9	NOME	360	- AR	Dec.
01	68 37.7	198 53.7	S 18 18.3	155 37.5	S 25 37.7	302 53.9	N 21 17.7	350 13.4	N 22 18.0	83 46.0	S 8 44.4	44 56.1	N 11 49.2	60.9	Acamar	315 11.5	S 40 12.2	
02	83 40.2	213 53.6	S 18 18.9	170 36.7	S 25 37.7	317 55.7	N 21 17.6	5 16.2	N 22 18.0	98 48.5	S 8 44.4	59 24.1	N 12 05.7	60.9	Achernar	335 19.7	S 57 06.6	
03	98 42.7	228 53.5	S 18 19.6	185 35.9	S 25 37.7	332 57.5	N 21 17.6	20 18.9	N 22 18.0	113 51.0	S 8 44.4	73 52.1	N 12 22.2	60.9	Acruux	173 01.0	S 63 14.0	
04	113 45.1	243 53.4	S 18 20.2	200 35.0	S 25 37.7	347 59.2	N 21 17.5	35 21.7	N 22 17.9	128 53.5	S 8 44.4	88 20.0	N 12 38.6	60.9	Adhara	255 05.9	S 29 00.1	
05	128 47.6	258 53.3	S 18 20.9	215 34.2	S 25 37.7	3 01.0	N 21 17.4	50 24.5	N 22 17.9	143 55.9	S 8 44.4	102 47.8	N 12 54.9	60.9	Aldebaran	290 39.5	N 16 33.6	
06	143 50.1	273 53.2	S 18 21.5	230 33.4	S 25 37.7	18 02.7	N 21 17.4	65 27.2	N 22 17.9	158 58.4	S 8 44.4	117 15.5	N 13 11.1	60.9				
07	158 52.5	288 53.1	S 18 22.1	245 32.5	S 25 37.7	33 04.5	N 21 17.3	80 30.0	N 22 17.9	174 00.9	S 8 44.3	131 43.1	N 13 27.3	60.9	Alioth	166 13.6	N 55 49.4	
08	173 55.0	303 53.0	S 18 22.8	260 31.7	S 25 37.7	48 06.3	N 21 17.3	95 32.7	N 22 17.9	189 03.3	S 8 44.3	146 10.7	N 13 43.4	60.9	Alkaid	152 52.6	N 49 11.4	
09	188 57.4	318 52.9	S 18 23.4	275 30.9	S 25 37.7	63 08.1	N 21 17.2	110 35.5	N 22 17.8	204 05.8	S 8 44.3	160 38.2	N 13 59.4	60.9	Alnair	27 32.9	S 46 50.6	
10	203 59.9	333 52.8	S 18 24.1	290 30.0	S 25 37.6	78 09.8	N 21 17.2	125 38.3	N 22 17.8	219 08.3	S 8 44.3	175 05.5	N 14 15.3	60.9	Alnilam	275 37.7	S 1 11.0	
11	219 02.4	348 52.7	S 18 24.7	305 29.2	S 25 37.6	93 11.6	N 21 17.1	140 41.0	N 22 17.8	234 10.8	S 8 44.3	189 32.8	N 14 31.1	60.9	Alphard	217 48.0	S 8 45.8	
12	234 04.8	3 52.6	S 18 25.4	320 28.4	S 25 37.6	108 13.4	N 21 17.0	155 43.8	N 22 17.8	249 13.2	S 8 44.3	204 00.1	N 14 46.9	60.9				
13	249 07.3	18 52.5	S 18 26.0	335 27.5	S 25 37.6	123 15.1	N 21 17.0	170 46.5	N 22 17.8	264 15.7	S 8 44.3	218 27.2	N 15 02.5	60.9	Alphecca	126 04.2	N 26 38.0	
14	264 09.8	33 52.4	S 18 26.6	350 26.7	S 25 37.6	138 16.9	N 21 16.9	185 49.3	N 22 17.7	279 18.2	S 8 44.3	232 54.2	N 15 18.1	60.9	Alpheratz	357 34.7	N 29 13.8	
15	279 12.2	48 52.3	S 18 27.3	5 25.9	S 25 37.6	153 18.7	N 21 16.9	200 52.0	N 22 17.7	294 20.6	S 8 44.3	247 21.2	N 15 33.6	60.9	Altair	62 00.2	N 8 56.1	
16	294 14.7	63 52.2	S 18 27.9	20 25.0	S 25 37.6	168 20.5	N 21 16.8	215 54.8	N 22 17.7	309 23.1	S 8 44.3	261 48.0	N 15 49.0	60.9	Ankaa	353 07.0	S 42 10.3	
17	309 17.2	78 52.1	S 18 28.6	35 24.2	S 25 37.6	183 22.2	N 21 16.8	230 57.6	N 22 17.7	324 25.6	S 8 44.3	276 14.8	N 16 04.3	60.9	Antares	112 16.4	S 26 29.2	
18	324 19.6	93 52.0	S 18 29.2	50 23.4	S 25 37.5	198 24.0	N 21 16.7	246 00.3	N 22 17.7	339 28.1	S 8 44.3	290 41.5	N 16 19.4	60.9				
19	339 22.1	108 51.9	S 18 29.8	65 22.5	S 25 37.5	213 25.8	N 21 16.6	261 03.1	N 22 17.6	354 30.5	S 8 44.3	305 08.1	N 16 34.5	60.9	Arcturus	145 48.4	N 19 03.3	
20	354 24.5	123 51.8	S 18 30.5	80 21.7	S 25 37.5	228 27.6	N 21 16.6	276 05.9	N 22 17.6	9 33.0	S 8 44.3	319 34.6	N 16 49.5	60.9	Atria	107 11.3	S 69 04.4	
21	9 27.0	138 51.7	S 18 31.1	95 20.9	S 25 37.5	243 29.4	N 21 16.5	291 08.6	N 22 17.6	24 35.5	S 8 44.3	334 01.0	N 17 04.4	60.9	Avior	234 14.8	S 59 34.9	
22	24 29.5	153 51.6	S 18 31.7	110 20.0	S 25 37.5	258 31.1	N 21 16.5	306 11.4	N 22 17.6	39 37.9	S 8 44.3	348 27.4	N 17 19.1	60.9	Bellatrix	278 22.8	N 6 22.4	
23	39 31.9	168 51.5	S 18 32.4	125 19.2	S 25 37.4	273 32.9	N 21 16.4	321 14.1	N 22 17.6	54 40.4	S 8 44.3	2 53.6	N 17 33.8	60.9	Betelgeuse	270 52.1	N 7 24.8	
15 00	54 34.4	183 51.4	S 18 33.0	140 18.4	S 25 37.4	288 34.7	N 21 16.4	336 16.9	N 22 17.5	69 42.9	S 8 44.3	17 19.7	N 17 48.3	60.9	Canopus	263 52.2	S 52 42.2	
01	69 36.9	198 51.3	S 18 33.6	155 17.5	S 25 37.4	303 36.5	N 21 16.3	351 19.7	N 22 17.5	84 45.3	S 8 44.3	31 45.8	N 18 02.8	60.8	Capella	280 21.8	N 46 01.3	
02	84 39.3	213 51.2	S 18 34.3	170 16.7	S 25 37.4	318 38.3	N 21 16.3	6 22.4	N 22 17.5	99 47.8	S 8 44.3	46 11.7	N 18 17.1	60.8	Castor	245 57.2	N 31 50.0	
03	99 41.8	228 51.1	S 18 34.9	185 15.9	S 25 37.3	333 40.1	N 21 16.2	21 25.2	N 22 17.5	114 50.3	S 8 44.3	60 37.6	N 18 31.2	60.8	Deneb	49 25.9	N 45 22.4	
04	114 44.3	243 51.0	S 18 35.5	200 15.0	S 25 37.3	348 41.8	N 21 16.2	36 27.9	N 22 17.5	129 52.8	S 8 44.2	75 03.4	N 18 45.3	60.8	Denebola	182 25.4	N 44 26.1	
05	129 46.7	258 50.9	S 18 36.2	215 14.2	S 25 37.3	3 43.6	N 21 16.1	51 30.7	N 22 17.4	144 55.2	S 8 44.2	89 29.1	N 18 59.3	60.8				
06	144 49.2	273 50.8	S 18 36.8	230 13.4	S 25 37.2	18 45.4	N 21 16.1	66 33.5	N 22 17.4	159 57.7	S 8 44.2	103 54.6	N 19 13.1	60.8	Diphda	348 47.2	S 17 51.0	
07	159 51.7	288 50.7	S 18 37.4	245 12.5	S 25 37.2	33 47.2	N 21 16.0	81 36.2	N 22 17.4	175 00.2	S 8 44.2	118 20.1	N 19 26.8	60.8	Dubhe	193 41.6	N 61 36.8	
08	174 54.1	303 50.6	S 18 38.1	260 11.7	S 25 37.2	48 49.0	N 21 15.9	96 39.0	N 22 17.4	190 02.6	S 8 44.2	132 45.5	N 19 40.3	60.8	Elnath	278 01.8	N 28 37.7	
09	189 56.6	318 50.4	S 18 38.7	275 10.9	S 25 37.1	63 50.8	N 21 15.9	111 41.8	N 22 17.4	205 05.1	S 8 44.2	147 10.9	N 19 53.8	60.8	Etamin	90 42.6	N 51 29.3	
10	204 59.0	333 50.3	S 18 39.3	290 10.1	S 25 37.1	78 52.6	N 21 15.8	126 44.5	N 22 17.3	220 07.6	S 8 44.2	161 36.1	N 20 07.1	60.8	Enif	33 38.9	N 9 59.4	
11	220 01.5	348 50.2	S 18 39.9	305 09.2	S 25 37.1	93 54.4	N 21 15.8	141 47.3	N 22 17.3	235 10.0	S 8 44.2	176 01.2	N 20 20.2	60.7				
12	235 04.0	3 50.1	S 18 40.6	320 08.4	S 25 37.0	108 56.2	N 21 15.7	156 50.1	N 22 17.3	250 12.5	S 8 44.2	190 26.2	N 20 33.2	60.7	Fomalhaut	15 14.5	S 29 29.5	
13	250 06.4	18 50.0	S 18 41.2	335 07.6	S 25 37.0	123 58.0	N 21 15.7	171 52.8	N 22 17.3	265 15.5	S 8 44.2	204 51.2	N 20 46.1	60.7	Gacrux	171 52.4	S 57 14.9	
14	265 08.9	33 49.9	S 18 41.8	350 06.7	S 25 36.9	138 59.8	N 21 15.6	186 55.6	N 22 17.3	280 17.4	S 8 44.2	219 16.0	N 20 58.9	60.7	Gienah	175 44.1	S 17 40.6	
15	280 11.4	48 49.8	S 18 42.4	5 05.9	S 25 36.9	154 01.6	N 21 15.6	201 58.4	N 22 17.2	295 19.9	S 8 44.2	233 40.8	N 21 11.4	60.7	Hadar	148 37.0	S 60 29.4	
16	295 13.8	63 49.7	S 18 43.1	20 05.1	S 25 36.8	169 03.4	N 21 15.5	217 01.1	N 22 17.2	310 22.4	S 8 44.2	248 05.5	N 21 23.9	60.7	Hamal	327 51.1	N 23 34.9	
17	310 16.3	78 49.6	S 18 43.7	35 04.2	S 25 36.8	184 05.2	N 21 15.5	232 03.9	N 22 17.2	325 24.8	S 8 44.2	262 30.1	N 21 36.2	60.7				
18	325 18.8	93 49.5	S 18 44.3	50 03.4	S 25 36.7	199 07.0	N 21 15.4	247 06.7	N 22 17.2	340 27.3	S 8 44.2	276 54.6	N 21 48.4	60.7	Kaus aust.	83 33.0	S 34 22.4	
19	340 21.2	108 49.3	S 18 44.9	65 02.6	S 25 36.7	214 08.8	N 21 15.4	262 09.4	N 22 17.2	355 29.8	S 8 44.2	291 19.0	N 22 00.4	60.6	Kochab	137 20.9	N 74 03.2	
20	355 23.7	123 49.2	S 18 45.6	80 01.8	S 25 36.6	229 10.6	N 21 15.3	277 12.2	N 22 17.1	10 32.2	S 8 44.1	305 43.3	N 22 12.2	60.6	Markab	13 29.9	N 15 20.5	
21	10 26.2	138 49.1	S 18 46.2	95 00.9	S 25 36.6	244 12.4	N 21 15.3	292 15.0	N 22 17.1	25 34.7	S 8 44.1	320 07.6	N 22 23.9	60.6	Menkar	314 06.0	N 4 11.3	
22	25 28.6	153 49.0	S 18 46.8	110 00.1	S 25 36.5	259 14.2	N 21 15.2	307 17.7	N 22 17.1	40 37.2	S 8 44.1	334 31.7	N 22 35.4	60.6	Menkent	147 58.3	S 36 29.4	
23	40 31.1	168 48.9	S 18 47.4	124 59.3	S 25 36.5	274 16.0	N 21 15.2	322 20.5	N 22 17.1	55 39.6	S 8 44.1	348 55.8	N 22 46.8	60.6				
16 00	55 33.5	183 48.8	S 18 48.0	139 58.4	S 25 36.4	289 17.8	N 21 15.1	337 23.3	N 22 17.1	70 42.1	S 8 44.1	3 19.8	N 22 58.0	60.5	Miaplacidus	221 38.5	S 69 48.7	
01	70 36.0	198 48.7	S 18 48.7	154 57.6	S 25 36.4	304 19.6	N 21 15.1	352 26.0	N 22 17.0	85 44.6	S 8 44.1							

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	NOVEMBRE	04
17 00	56 32.7	183 45.9 S 19 02.8	139 38.6 S 25 34.7	290 01.5 N 21 14.0	338 29.7 N 22 16.6	71 41.2 S 8 43.9	348 34.0 N 26 35.0	60.0	NOME	360	- AR	Dec.
01	71 35.2	198 45.8 S 19 03.4	154 37.8 S 25 34.6	305 03.3 N 21 14.0	353 32.5 N 22 16.5	86 43.7 S 8 43.9	2 56.3 N 26 41.8	60.0	Acamar	315	11.5	S 40 12.2
02	86 37.6	213 45.7 S 19 04.0	169 37.0 S 25 34.5	320 05.2 N 21 14.0	8 35.3 N 22 16.5	101 46.1 S 8 43.9	17 18.7 N 26 48.3	59.9	Achernar	335	19.7	S 57 06.7
03	101 40.1	228 45.6 S 19 04.6	184 36.2 S 25 34.5	335 07.0 N 21 13.9	23 38.1 N 22 16.5	116 48.6 S 8 43.9	31 41.0 N 26 54.6	59.9	AcruX	173	00.9	S 63 14.0
04	116 42.5	243 45.4 S 19 05.2	199 35.3 S 25 34.4	350 08.8 N 21 13.9	38 40.8 N 22 16.5	131 51.1 S 8 43.9	46 03.3 N 27 00.8	59.9	Adhara	255	05.8	S 29 00.1
05	131 45.0	258 45.3 S 19 05.8	214 34.5 S 25 34.3	5 10.7 N 21 13.8	53 43.6 N 22 16.5	146 53.5 S 8 43.9	60 25.5 N 27 06.7	59.8	Aldebaran	290	39.5	N 16 33.6
06	146 47.5	273 45.2 S 19 06.4	229 33.7 S 25 34.2	20 12.5 N 21 13.8	68 46.4 N 22 16.4	161 56.0 S 8 43.9	74 47.8 N 27 12.5	59.8				
07	161 49.9	288 45.1 S 19 07.0	244 32.9 S 25 34.1	35 14.3 N 21 13.7	83 49.2 N 22 16.4	176 58.4 S 8 43.9	89 10.0 N 27 18.0	59.8	Alioth	166	13.6	N 55 49.4
08	176 52.4	303 44.9 S 19 07.6	259 32.1 S 25 34.0	50 16.2 N 21 13.7	98 51.9 N 22 16.4	192 00.9 S 8 43.9	103 32.1 N 27 23.3	59.7	Alkaid	152	52.6	N 49 11.3
09	191 54.9	318 44.8 S 19 08.2	274 31.2 S 25 33.9	65 18.0 N 21 13.7	113 54.7 N 22 16.4	207 03.4 S 8 43.8	117 54.3 N 27 28.5	59.7	Alnair	27	33.0	S 46 50.6
10	206 57.3	333 44.7 S 19 08.8	289 30.4 S 25 33.8	80 19.9 N 21 13.6	128 57.5 N 22 16.4	222 05.8 S 8 43.8	132 16.4 N 27 33.4	59.7	Alnilam	275	37.7	S 1 11.0
11	221 59.8	348 44.6 S 19 09.4	304 29.6 S 25 33.7	95 21.7 N 21 13.6	144 00.3 N 22 16.3	237 08.3 S 8 43.8	146 38.6 N 27 38.2	59.7	Alphard	217	48.0	S 8 45.8
12	237 02.3	3 44.4 S 19 10.0	319 28.8 S 25 33.6	110 23.6 N 21 13.5	159 03.0 N 22 16.3	252 10.7 S 8 43.8	161 00.7 N 27 42.7	59.6				
13	252 04.7	18 44.3 S 19 10.6	334 28.0 S 25 33.5	125 25.4 N 21 13.5	174 05.8 N 22 16.3	267 13.2 S 8 43.8	175 22.8 N 27 47.1	59.6	Alphecca	126	04.2	N 26 37.9
14	267 07.2	33 44.2 S 19 11.2	349 27.1 S 25 33.4	140 27.2 N 21 13.5	189 08.6 N 22 16.3	282 15.6 S 8 43.8	189 44.9 N 27 51.2	59.6	Alpheratz	357	34.7	N 29 13.8
15	282 09.6	48 44.0 S 19 11.8	4 26.3 S 25 33.4	155 29.1 N 21 13.4	204 11.4 N 22 16.3	297 18.1 S 8 43.8	204 07.0 N 27 55.2	59.5	Altair	62	00.2	N 8 56.1
16	297 12.1	63 43.9 S 19 12.4	19 25.5 S 25 33.2	170 30.9 N 21 13.4	219 14.1 N 22 16.2	312 20.6 S 8 43.8	218 29.1 N 27 58.9	59.5	Ankaa	353	07.0	S 42 10.3
17	312 14.6	78 43.8 S 19 13.0	34 24.7 S 25 33.1	185 32.8 N 21 13.3	234 16.9 N 22 16.2	327 23.0 S 8 43.8	232 51.2 N 28 02.5	59.5	Antares	112	16.4	S 26 29.2
18	327 17.0	93 43.7 S 19 13.6	49 23.9 S 25 33.0	200 34.6 N 21 13.3	249 19.7 N 22 16.2	342 25.5 S 8 43.8	247 13.3 N 28 05.8	59.4				
19	342 19.5	108 43.5 S 19 14.2	64 23.0 S 25 32.8	215 36.5 N 21 13.3	264 22.5 N 22 16.2	357 27.9 S 8 43.7	261 35.4 N 28 09.0	59.4	Arcturus	145	48.4	N 19 03.2
20	357 22.0	123 43.4 S 19 14.8	79 22.2 S 25 32.7	230 38.3 N 21 13.2	279 25.3 N 22 16.1	12 30.4 S 8 43.7	275 57.5 N 28 11.9	59.4	Atria	107	11.3	S 69 04.4
21	12 24.4	138 43.3 S 19 15.4	94 21.4 S 25 32.6	245 40.2 N 21 13.2	294 28.0 N 22 16.1	27 32.9 S 8 43.7	290 19.6 N 28 14.6	59.3	Avior	234	14.7	S 59 34.9
22	27 26.9	153 43.1 S 19 16.0	109 20.6 S 25 32.5	260 42.1 N 21 13.1	309 30.8 N 22 16.1	42 35.3 S 8 43.7	304 41.8 N 28 17.2	59.3	Bellatrix	278	22.8	N 6 22.4
23	42 29.4	168 43.0 S 19 16.5	124 19.8 S 25 32.4	275 43.9 N 21 13.1	324 33.6 N 22 16.1	57 37.8 S 8 43.7	319 03.9 N 28 19.5	59.2	Betelgeuse	270	52.1	N 7 24.8
18 00	57 31.8	183 42.9 S 19 17.1	139 19.0 S 25 32.3	290 45.8 N 21 13.1	339 36.4 N 22 16.1	72 40.2 S 8 43.7	333 26.1 N 28 21.7	59.2	Canopus	263	52.1	S 52 42.2
01	72 34.3	198 42.7 S 19 17.7	154 18.1 S 25 32.2	305 47.6 N 21 13.0	354 39.1 N 22 16.0	87 42.7 S 8 43.7	347 48.3 N 28 23.6	59.2	Capella	280	21.8	N 46 01.3
02	87 36.8	213 42.6 S 19 18.3	169 17.3 S 25 32.0	320 49.5 N 21 13.0	9 41.9 N 22 16.0	102 45.1 S 8 43.7	2 10.6 N 28 25.3	59.1	Castor	245	57.2	N 31 50.0
03	102 39.2	228 42.5 S 19 18.9	184 16.5 S 25 31.9	335 51.3 N 21 13.0	24 44.7 N 22 16.0	117 47.6 S 8 43.7	16 32.8 N 28 26.9	59.1	Deneb	49	26.0	N 45 22.4
04	117 41.7	243 42.3 S 19 19.5	199 15.7 S 25 31.8	350 53.2 N 21 12.9	39 47.5 N 22 16.0	132 50.1 S 8 43.7	30 55.1 N 28 28.2	59.1	Denebola	182	25.4	N 14 26.0
05	132 44.1	258 42.2 S 19 20.1	214 14.9 S 25 31.7	5 55.1 N 21 12.9	54 50.3 N 22 16.0	147 52.5 S 8 43.6	45 17.5 N 28 29.4	59.0				
06	147 46.6	273 42.1 S 19 20.7	229 14.1 S 25 31.6	20 56.9 N 21 12.9	69 53.0 N 22 15.9	162 55.0 S 8 43.6	59 39.9 N 28 30.3	59.0	Diphda	348	47.2	S 17 51.0
07	162 49.1	288 41.9 S 19 21.3	244 13.2 S 25 31.4	35 58.8 N 21 12.8	84 55.8 N 22 15.9	177 57.4 S 8 43.6	74 02.3 N 28 31.0	59.0	Dubhe	193	41.5	N 61 36.8
08	177 51.5	303 41.8 S 19 21.9	259 12.4 S 25 31.3	51 00.7 N 21 12.8	99 58.6 N 22 15.9	192 59.9 S 8 43.6	88 24.7 N 28 31.6	58.9	Elnath	278	01.8	N 28 37.7
09	192 54.0	318 41.7 S 19 22.4	274 11.6 S 25 31.2	66 02.5 N 21 12.7	115 01.4 N 22 15.9	208 02.3 S 8 43.6	102 47.3 N 28 32.0	58.9	Etamin	90	42.6	N 51 29.3
10	207 56.5	333 41.5 S 19 23.0	289 10.8 S 25 31.0	81 04.4 N 21 12.7	130 04.2 N 22 15.8	223 04.8 S 8 43.6	117 09.8 N 28 32.1	58.9	Enif	33	38.9	N 9 59.4
11	222 58.9	348 41.4 S 19 23.6	304 10.0 S 25 30.9	96 06.3 N 21 12.7	145 06.9 N 22 15.8	238 07.2 S 8 43.6	131 32.4 N 28 32.1	58.8				
12	238 01.4	3 41.3 S 19 24.2	319 09.2 S 25 30.8	111 08.1 N 21 12.6	160 09.9 N 22 15.8	253 09.7 S 8 43.6	145 55.1 N 28 31.9	58.8	Fomalhaut	15	14.5	S 29 29.5
13	253 03.9	18 41.1 S 19 24.8	334 08.4 S 25 30.7	126 10.0 N 21 12.6	175 12.5 N 22 15.8	268 12.2 S 8 43.6	160 17.8 N 28 31.4	58.7	Gacrux	171	52.4	S 57 14.9
14	268 06.3	33 41.0 S 19 25.4	349 07.5 S 25 30.5	141 11.9 N 21 12.6	190 15.3 N 22 15.8	283 14.6 S 8 43.5	174 40.6 N 28 30.8	58.7	Gienah	175	44.0	S 17 40.6
15	283 08.8	48 40.9 S 19 26.0	4 06.7 S 25 30.4	156 13.8 N 21 12.5	205 18.1 N 22 15.7	298 17.1 S 8 43.5	189 03.4 N 28 30.0	58.7	Hadar	148	36.9	S 60 29.4
16	298 11.3	63 40.7 S 19 26.5	19 05.9 S 25 30.2	171 15.6 N 21 12.5	220 20.8 N 22 15.7	313 19.5 S 8 43.5	203 26.4 N 28 29.0	58.6	Hamal	327	51.1	N 23 34.9
17	313 13.7	78 40.6 S 19 27.1	34 05.1 S 25 30.1	186 17.5 N 21 12.5	235 23.6 N 22 15.7	328 22.0 S 8 43.5	217 49.3 N 28 27.8	58.6				
18	328 16.2	93 40.4 S 19 27.7	49 04.3 S 25 30.0	201 19.4 N 21 12.4	250 26.4 N 22 15.7	343 24.4 S 8 43.5	232 12.4 N 28 26.5	58.6	Kaus aust.	83	33.0	S 34 22.4
19	343 18.6	108 40.3 S 19 28.3	64 03.5 S 25 29.8	216 21.3 N 21 12.4	265 29.2 N 22 15.7	358 26.9 S 8 43.5	246 35.5 N 28 24.9	58.5	Kochab	137	20.9	N 74 03.2
20	358 21.1	123 40.2 S 19 28.9	79 02.7 S 25 29.7	231 23.1 N 21 12.4	280 32.0 N 22 15.6	13 29.3 S 8 43.5	260 58.7 N 28 23.2	58.5	Markab	13	29.9	N 15 20.5
21	13 23.6	138 40.0 S 19 29.4	94 01.8 S 25 29.5	246 25.0 N 21 12.3	295 34.8 N 22 15.6	28 31.8 S 8 43.5	275 22.0 N 28 21.2	58.4	Menkar	314	06.0	N 4 11.3
22	28 26.0	153 39.9 S 19 30.0	109 01.0 S 25 29.4	261 26.9 N 21 12.3	310 37.5 N 22 15.6	43 34.2 S 8 43.4	289 45.3 N 28 19.1	58.4	Menkent	147	58.2	S 36 29.4
23	43 28.5	168 39.8 S 19 30.6	124 00.2 S 25 29.3	276 28.8 N 21 12.3	325 40.3 N 22 15.6	58 36.7 S 8 43.4	304 08.8 N 28 16.8	58.4				
19 00	58 31.0	183 39.6 S 19 31.2	138 59.4 S 25 29.1	291 30.7 N 21 12.3	340 43.1 N 22 15.5	73 39.1 S 8 43.4	318 32.3 N 28 14.3	58.3	Miaplacidus	221	38.5	S 69 48.7
01	73 33.4	198 39.5 S 19 31.7	153 58.6 S 25 29.0	306 32.5 N 21 12.2	355 45.9 N 22 15.5	88 41.6 S 8 43.4	332 55.9 N 28 11.7	58.3	Mirfak	308	28.0	N 49 57.0
02	88 35.9	213 39.3 S 19 32.3	168 57.8 S 25 28.8	321 34.4 N 21 12.2	10 48.7 N 22 15.5	103 44.1 S 8 43.4	347 19.6 N 28 08.8	58.2	Mizar	158	46.5	N 54 47.7
03	103 38.4	228 39.2 S 19 32.9	183 57.0 S 25 28.7	336 36.3 N 21 12.2	25 51.5 N 22 15.5	118 46.5 S 8 43.4	1 43.4 N 28 05.8	58.2	Nunki	75	48.2	S 26 16.0
04	118 40.8	243 39.0 S 19 33.5	198 56.2 S 25 28.5	351 38.2 N 21 12.1	40 54.2 N 22 15.5	133 49.0 S 8 43.4	16 07.2 N 28 02.6	58.2	Peacock	53	06.1	S 56 39.5
05	133 43.3	258 38.9 S 19 34.1	213 55.4 S 25 28.4	6 40.1 N 21 12.1	55 57.0 N 22 15.4	148 51.4 S 8 43.4	30 31.2 N 27 59.3	58.1	Polaris	313	38.5	N 89 22.1
06	148 45.8	273 38.8 S 19 34.6	228 54.6 S 25 28.2	21 42.0 N 21 12.1	70 59.8 N 22 15.4	163 53.9 S 8 43.3	44 55.3 N 27 55.7	58.1	Pollux	243	17.4	N 27 57.9
07	163 48.2	288 38.6 S 19 35.2	243 53.7 S 25 28.1	36 43.9 N 21 12.0	86 02.6 N 22 15.4	178 56.3 S 8 43.3	59 19.4 N 27 52.0	58.1	Procyon	244	50.9	N 5 09.8
08	178 50.7	303 38.5 S 19 35.8	258 52.9 S 25 27.9	51 45.8 N 21 12.0	101 05.4 N 22 15.4	193 58.8 S 8 43.3	73 43.7 N 27 48.1	58.0	Rasalhague	95	59.0	N 12 32.6
09	193 53.1	318 38.3 S 19 36.3	273 52.1 S 25 27.7									

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	NOVEMBRE	07
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'				
20 00	59 30.1	183 36.1	S 19 44.9	138 40.0	S 25 25.2	292 16.2	N 21 11.6	341 50.0	N 22 15.0	74 38.0	S 8 43.1	304 26.4	N 26 24.0	57.4	NOME	360	- AR	Dec.
01	74 32.6	198 36.0	S 19 45.4	153 39.2	S 25 25.0	307 18.1	N 21 11.6	356 52.8	N 22 15.0	89 40.4	S 8 43.1	318 52.6	N 26 17.4	57.4	Acamar	315	11.4	S 40 12.2
02	89 35.0	213 35.8	S 19 46.0	168 38.4	S 25 24.9	322 20.0	N 21 11.5	11 55.5	N 22 15.0	104 42.9	S 8 43.1	333 18.8	N 26 10.7	57.3	Achernar	335	19.7	S 57 06.7
03	104 37.5	228 35.7	S 19 46.5	183 37.6	S 25 24.7	337 21.9	N 21 11.5	26 58.3	N 22 14.9	119 45.3	S 8 43.1	347 45.2	N 26 03.9	57.3	AcruX	173	00.9	S 63 14.0
04	119 40.0	243 35.5	S 19 47.1	198 36.8	S 25 24.5	352 23.8	N 21 11.5	42 01.1	N 22 14.9	134 47.8	S 8 43.1	2 11.7	N 25 56.9	57.2	Adhara	255	05.8	S 29 00.1
05	134 42.4	258 35.4	S 19 47.7	213 36.0	S 25 24.3	7 25.7	N 21 11.5	57 03.9	N 22 14.9	149 50.2	S 8 43.0	16 38.4	N 25 49.8	57.2	Aldebaran	290	39.5	N 16 33.6
06	149 44.9	273 35.2	S 19 48.2	228 35.2	S 25 24.1	22 27.7	N 21 11.4	72 06.7	N 22 14.9	164 52.7	S 8 43.0	31 05.1	N 25 42.5	57.2				
07	164 47.4	288 35.1	S 19 48.8	243 34.4	S 25 24.0	37 29.6	N 21 11.4	87 09.5	N 22 14.9	179 55.1	S 8 43.0	45 32.0	N 25 35.2	57.1	Alioth	166	13.6	N 55 49.4
08	179 49.8	303 34.9	S 19 49.3	258 33.6	S 25 23.8	52 31.5	N 21 11.4	102 12.3	N 22 14.8	194 57.6	S 8 43.0	59 59.0	N 25 27.6	57.1	Alkaid	152	52.6	N 49 11.3
09	194 52.3	318 34.8	S 19 49.9	273 32.8	S 25 23.6	67 33.4	N 21 11.4	117 15.1	N 22 14.8	210 00.0	S 8 43.0	74 26.1	N 25 20.0	57.1	Alnair	27	33.0	S 46 50.6
10	209 54.8	333 34.6	S 19 50.4	288 32.0	S 25 23.4	82 35.3	N 21 11.3	132 17.9	N 22 14.8	225 02.4	S 8 43.0	88 53.3	N 25 12.2	57.0	Alnilam	275	37.6	S 1 11.0
11	224 57.2	348 34.5	S 19 51.0	303 31.2	S 25 23.2	97 37.2	N 21 11.3	147 20.6	N 22 14.8	240 04.9	S 8 43.0	103 20.7	N 25 04.3	57.0	Alphard	217	48.0	S 8 45.8
12	239 59.7	3 34.3	S 19 51.6	318 30.4	S 25 23.0	112 39.2	N 21 11.3	162 23.4	N 22 14.7	255 07.3	S 8 42.9	117 48.2	N 24 56.3	56.9				
13	255 02.1	18 34.2	S 19 52.1	333 29.6	S 25 22.8	127 41.1	N 21 11.3	177 26.2	N 22 14.7	270 09.8	S 8 42.9	132 15.8	N 24 48.1	56.9	Alphecca	126	04.2	N 26 37.9
14	270 04.6	33 34.0	S 19 52.7	348 28.8	S 25 22.6	142 43.0	N 21 11.3	192 29.0	N 22 14.7	285 12.2	S 8 42.9	146 43.6	N 24 39.8	56.9	Alpheratz	357	34.7	N 29 13.8
15	285 07.1	48 33.9	S 19 53.2	3 28.0	S 25 22.4	157 44.9	N 21 11.2	207 31.8	N 22 14.7	300 14.7	S 8 42.9	161 11.4	N 24 31.4	56.8	Altair	62	00.2	N 8 56.1
16	300 09.5	63 33.7	S 19 53.8	18 27.2	S 25 22.2	172 46.9	N 21 11.2	222 34.6	N 22 14.7	315 17.1	S 8 42.9	175 39.4	N 24 22.9	56.8	Ankaa	353	07.0	S 42 10.4
17	315 12.0	78 33.6	S 19 54.3	33 26.4	S 25 22.0	187 48.8	N 21 11.2	237 37.4	N 22 14.6	330 19.6	S 8 42.9	190 07.6	N 24 14.3	56.8	Antares	112	16.4	S 26 29.2
18	330 14.5	93 33.4	S 19 54.9	48 25.6	S 25 21.8	202 50.7	N 21 11.2	252 40.2	N 22 14.6	345 22.0	S 8 42.8	204 35.8	N 24 05.5	56.7				
19	345 16.9	108 33.2	S 19 55.4	63 24.8	S 25 21.6	217 52.7	N 21 11.2	267 43.0	N 22 14.6	0 24.5	S 8 42.8	219 04.2	N 23 56.6	56.7	Arcturus	145	48.4	N 19 03.2
20	0 19.4	123 33.1	S 19 56.0	78 24.0	S 25 21.4	232 54.6	N 21 11.1	282 45.8	N 22 14.6	15 26.9	S 8 42.8	233 32.7	N 23 47.6	56.7	Atria	107	11.3	S 69 04.4
21	15 21.9	138 32.9	S 19 56.5	93 23.2	S 25 21.2	247 56.5	N 21 11.1	297 48.6	N 22 14.5	30 29.4	S 8 42.8	248 01.3	N 23 38.6	56.6	Avior	234	14.7	S 59 35.0
22	30 24.3	153 32.8	S 19 57.1	108 22.4	S 25 21.0	262 58.5	N 21 11.1	312 51.4	N 22 14.5	45 31.8	S 8 42.8	262 30.0	N 23 29.3	56.6	Bellatrix	278	22.8	N 6 22.4
23	45 26.8	168 32.6	S 19 57.6	123 21.6	S 25 20.8	278 00.4	N 21 11.1	327 54.1	N 22 14.5	60 34.2	S 8 42.8	276 58.9	N 23 20.0	56.5	Betelgeuse	270	52.0	N 7 24.8
21 00	60 29.3	183 32.5	S 19 58.2	138 20.8	S 25 20.6	293 02.3	N 21 11.1	342 56.9	N 22 14.5	75 36.7	S 8 42.8	291 27.8	N 23 10.6	56.5	Canopus	263	52.1	S 52 42.2
01	75 31.7	198 32.3	S 19 58.7	153 20.0	S 25 20.4	308 04.3	N 21 11.1	357 59.7	N 22 14.4	90 39.1	S 8 42.7	305 57.0	N 23 01.1	56.5	Capella	280	21.7	N 46 01.3
02	90 34.2	213 32.1	S 19 59.3	168 19.2	S 25 20.2	323 06.2	N 21 11.0	13 02.5	N 22 14.4	105 41.6	S 8 42.7	320 26.2	N 22 51.4	56.4	Castor	245	57.1	N 31 50.0
03	105 36.6	228 32.0	S 19 59.8	183 18.4	S 25 20.0	338 08.1	N 21 11.0	28 05.3	N 22 14.4	120 44.0	S 8 42.7	334 55.5	N 22 41.7	56.4	Deneb	49	26.0	N 45 22.4
04	120 39.1	243 31.8	S 20 00.4	198 17.6	S 25 19.8	353 10.1	N 21 11.0	43 08.1	N 22 14.4	135 46.5	S 8 42.7	349 25.0	N 22 31.9	56.4	Denebola	182	25.3	N 14 26.0
05	135 41.6	258 31.7	S 20 00.9	213 16.8	S 25 19.6	8 12.0	N 21 11.0	58 10.9	N 22 14.4	150 48.9	S 8 42.7	3 54.6	N 22 21.9	56.3				
06	150 44.0	273 31.5	S 20 01.5	228 16.1	S 25 19.4	23 14.0	N 21 11.0	73 13.7	N 22 14.3	165 51.4	S 8 42.7	18 24.3	N 22 11.9	56.3	Diphda	348	47.2	S 17 51.0
07	165 46.5	288 31.4	S 20 02.0	243 15.3	S 25 19.1	38 15.9	N 21 10.9	88 16.5	N 22 14.3	180 53.8	S 8 42.6	32 54.1	N 22 01.8	56.3	Dubhe	193	41.5	N 61 36.8
08	180 49.0	303 31.2	S 20 02.5	258 14.5	S 25 18.9	53 17.8	N 21 10.9	103 19.3	N 22 14.3	195 56.2	S 8 42.6	47 24.1	N 21 51.6	56.2	Elnath	278	01.8	N 28 37.7
09	195 51.4	318 31.0	S 20 03.1	273 13.7	S 25 18.7	68 19.8	N 21 10.9	118 22.1	N 22 14.3	210 58.7	S 8 42.6	61 54.2	N 21 41.3	56.2	Etamin	90	42.6	N 51 29.3
10	210 53.9	333 30.9	S 20 03.6	288 12.9	S 25 18.5	83 21.7	N 21 10.9	133 24.9	N 22 14.2	226 01.1	S 8 42.6	76 24.4	N 21 30.8	56.2	Enif	33	38.9	N 9 59.5
11	225 56.4	348 30.7	S 20 04.2	303 12.1	S 25 18.3	98 23.7	N 21 10.9	148 27.7	N 22 14.2	241 03.6	S 8 42.6	90 54.7	N 21 20.4	56.1				
12	240 58.8	3 30.5	S 20 04.7	318 11.3	S 25 18.0	113 25.6	N 21 10.9	163 30.5	N 22 14.2	256 06.0	S 8 42.6	105 25.1	N 21 09.8	56.1	Fomalhaut	15	14.5	S 29 29.5
13	256 01.3	18 30.4	S 20 05.2	333 10.5	S 25 17.8	128 27.6	N 21 10.9	178 33.3	N 22 14.2	271 08.5	S 8 42.5	119 55.6	N 20 59.1	56.1	Gacrux	171	52.4	S 57 14.9
14	271 03.7	33 30.2	S 20 05.8	348 09.7	S 25 17.6	143 29.5	N 21 10.8	193 36.1	N 22 14.1	286 10.9	S 8 42.5	134 26.3	N 20 48.3	56.0	Gienah	175	44.0	S 17 40.6
15	286 06.2	48 30.1	S 20 06.3	3 08.9	S 25 17.4	158 31.5	N 21 10.8	208 38.9	N 22 14.1	301 13.3	S 8 42.5	148 57.0	N 20 37.5	56.0	Hadar	148	36.9	S 60 29.4
16	301 08.7	63 29.9	S 20 06.9	18 08.1	S 25 17.1	173 33.4	N 21 10.8	223 41.6	N 22 14.1	316 15.8	S 8 42.5	163 27.9	N 20 26.6	56.0	Hamal	327	51.1	N 23 34.9
17	316 11.1	78 29.7	S 20 07.4	33 07.3	S 25 16.9	188 35.4	N 21 10.8	238 44.4	N 22 14.1	331 18.2	S 8 42.5	177 58.9	N 20 15.6	55.9				
18	331 13.6	93 29.6	S 20 07.9	48 06.5	S 25 16.7	203 37.4	N 21 10.8	253 47.2	N 22 14.1	346 20.7	S 8 42.5	192 30.0	N 20 04.5	55.9	Kaus aust.	83	33.0	S 34 22.4
19	346 16.1	108 29.4	S 20 08.5	63 05.8	S 25 16.5	218 39.3	N 21 10.8	268 50.0	N 22 14.0	1 23.1	S 8 42.4	207 01.2	N 19 53.3	55.9	Kochab	137	20.9	N 74 03.1
20	1 18.5	123 29.2	S 20 09.0	78 05.0	S 25 16.2	233 41.3	N 21 10.8	283 52.8	N 22 14.0	16 25.6	S 8 42.4	221 32.6	N 19 42.1	55.8	Markab	13	29.9	N 15 20.5
21	16 21.0	138 29.1	S 20 09.5	93 04.2	S 25 16.0	248 43.2	N 21 10.8	298 55.6	N 22 14.0	31 28.0	S 8 42.4	236 04.0	N 19 30.7	55.8	Menkar	314	06.0	N 4 11.3
22	31 23.5	153 28.9	S 20 10.1	108 03.4	S 25 15.8	263 45.2	N 21 10.7	313 58.4	N 22 14.0	46 30.4	S 8 42.4	250 35.5	N 19 19.3	55.8	Menkent	147	58.2	S 36 29.4
23	46 25.9	168 28.7	S 20 10.6	123 02.6	S 25 15.5	278 47.2	N 21 10.7	329 01.2	N 22 13.9	61 32.9	S 8 42.4	265 07.2	N 19 07.9	55.8				
22 00	61 28.4	183 28.6	S 20 11.1	138 01.8	S 25 15.3	293 49.1	N 21 10.7	344 04.0	N 22 13.9	76 35.3	S 8 42.4	279 38.9	N 18 56.3	55.7	Miaplacidus	221	38.4	S 69 48.7
01	76 30.9	198 28.4	S 20 11.7	153 01.0	S 25 15.1	308 51.1	N 21 10.7	359 06.8	N 22 13.9	91 37.8	S 8 42.3							

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	NOVEMBRE	10
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
23 00	62 27.5	183 24.5	S 20 23.7	137 43.0	S 25 09.3	294 36.6	N 21 10.5	345 11.2	N 22 13.3	77 33.8	S 8 41.9	268 50.1	N 14 00.8	55.1	NOME	360	- AR	Dec.
01	77 30.0	198 24.5	S 20 24.2	152 42.2	S 25 09.0	309 38.6	N 21 10.5	0 14.0	N 22 13.3	92 36.3	S 8 41.9	283 24.2	N 13 47.8	55.1	Acamar	315 11.4	S 40 12.2	
02	92 32.5	213 24.1	S 20 24.8	167 41.4	S 25 08.7	324 40.6	N 21 10.5	15 16.8	N 22 13.3	107 38.7	S 8 41.9	297 58.3	N 13 34.8	55.0	Achernar	335 19.7	S 57 06.7	
03	107 34.9	228 24.0	S 20 25.3	182 40.7	S 25 08.5	339 42.6	N 21 10.5	30 19.6	N 22 13.3	122 41.1	S 8 41.9	312 32.5	N 13 21.7	55.0	AcruX	173 00.9	S 63 14.0	
04	122 37.4	243 23.8	S 20 25.8	197 39.9	S 25 08.2	354 44.5	N 21 10.5	45 22.4	N 22 13.3	137 43.6	S 8 41.9	327 06.8	N 13 08.6	55.0	Adhara	255 05.8	S 29 00.1	
05	137 39.8	258 23.6	S 20 26.3	212 39.1	S 25 07.9	9 46.5	N 21 10.5	60 25.2	N 22 13.2	152 46.0	S 8 41.8	341 41.1	N 12 55.5	55.0	Aldebaran	290 39.5	N 16 33.6	
06	152 42.3	273 23.4	S 20 26.8	227 38.3	S 25 07.6	24 48.5	N 21 10.5	75 28.0	N 22 13.2	167 48.5	S 8 41.8	356 15.6	N 12 42.3	54.9				
07	167 44.8	288 23.3	S 20 27.3	242 37.6	S 25 07.4	39 50.5	N 21 10.5	90 30.8	N 22 13.2	182 50.9	S 8 41.8	10 50.1	N 12 29.1	54.9	Alioth	166 13.5	N 55 49.4	
08	182 47.2	303 23.1	S 20 27.8	257 36.8	S 25 07.1	54 52.5	N 21 10.5	105 33.6	N 22 13.2	197 53.3	S 8 41.8	25 24.6	N 12 15.9	54.9	Alkaid	152 52.6	N 49 11.3	
09	197 49.7	318 22.9	S 20 28.4	272 36.0	S 25 06.8	69 54.5	N 21 10.5	120 36.4	N 22 13.1	212 55.8	S 8 41.8	39 59.3	N 12 02.6	54.9	Alnair	27 33.0	S 46 50.6	
10	212 52.2	333 22.7	S 20 28.9	287 35.2	S 25 06.5	84 56.5	N 21 10.5	135 39.2	N 22 13.1	227 58.2	S 8 41.7	54 34.0	N 11 49.3	54.9	Alnilam	275 37.6	S 1 11.0	
11	227 54.6	348 22.6	S 20 29.4	302 34.5	S 25 06.3	99 58.5	N 21 10.5	150 42.0	N 22 13.1	243 00.6	S 8 41.7	69 08.7	N 11 35.9	54.8	Alphard	217 47.9	S 8 45.8	
12	242 57.1	3 22.4	S 20 29.9	317 33.7	S 25 06.0	115 00.6	N 21 10.5	165 44.8	N 22 13.1	258 03.1	S 8 41.7	83 43.6	N 11 22.5	54.8				
13	257 59.6	18 22.2	S 20 30.4	332 32.9	S 25 05.7	130 02.6	N 21 10.5	180 47.6	N 22 13.0	273 05.5	S 8 41.7	98 18.5	N 11 09.1	54.8	Alphecca	126 04.2	N 26 37.9	
14	273 02.0	33 22.0	S 20 30.9	347 32.1	S 25 05.4	145 04.6	N 21 10.5	195 50.4	N 22 13.0	288 07.9	S 8 41.7	112 53.4	N 10 55.6	54.8	Alpheratz	357 34.7	N 29 13.8	
15	288 04.5	48 21.8	S 20 31.4	2 31.4	S 25 05.1	160 06.6	N 21 10.5	210 53.2	N 22 13.0	303 10.4	S 8 41.6	127 28.4	N 10 42.1	54.8	Altair	62 00.2	N 8 56.1	
16	303 07.0	63 21.7	S 20 31.9	17 30.6	S 25 04.8	175 08.6	N 21 10.5	225 56.1	N 22 13.0	318 12.8	S 8 41.6	142 03.5	N 10 28.6	54.7	Ankaa	353 07.0	S 42 10.4	
17	318 09.4	78 21.5	S 20 32.4	32 29.8	S 25 04.6	190 10.6	N 21 10.5	240 58.9	N 22 12.9	333 15.2	S 8 41.6	156 38.7	N 10 15.1	54.7	Antares	112 16.4	S 26 29.2	
18	333 11.9	93 21.3	S 20 32.9	47 29.1	S 25 04.3	205 12.6	N 21 10.5	256 01.7	N 22 12.9	348 17.7	S 8 41.6	171 13.9	N 10 01.5	54.7				
19	348 14.3	108 21.1	S 20 33.4	62 28.3	S 25 04.0	220 14.6	N 21 10.5	271 04.5	N 22 12.9	3 20.1	S 8 41.6	185 49.1	N 9 47.9	54.7	Arcturus	145 48.4	N 19 03.2	
20	3 16.8	123 20.9	S 20 33.9	77 27.5	S 25 03.7	235 16.6	N 21 10.5	286 07.3	N 22 12.9	18 22.5	S 8 41.5	200 24.4	N 9 34.3	54.7	Atria	107 11.3	S 69 04.4	
21	18 19.3	138 20.8	S 20 34.4	92 26.7	S 25 03.4	250 18.6	N 21 10.5	301 10.1	N 22 12.8	33 25.0	S 8 41.5	214 59.8	N 9 20.6	54.6	Avior	234 14.7	S 59 35.0	
22	33 21.7	153 20.6	S 20 34.9	107 26.0	S 25 03.1	265 20.7	N 21 10.5	316 12.9	N 22 12.8	48 27.4	S 8 41.5	229 35.2	N 9 06.9	54.6	Bellatrix	278 22.8	N 6 22.4	
23	48 24.2	168 20.4	S 20 35.4	122 25.2	S 25 02.8	280 22.7	N 21 10.5	331 15.7	N 22 12.8	63 29.8	S 8 41.5	244 10.6	N 8 53.2	54.6	Betelgeuse	270 52.0	N 7 24.8	
24 00	63 26.7	183 20.2	S 20 36.0	137 24.4	S 25 02.5	295 24.7	N 21 10.5	346 18.5	N 22 12.8	78 32.3	S 8 41.5	258 46.1	N 8 39.5	54.6	Canopus	263 52.1	S 52 42.2	
01	78 29.1	198 20.0	S 20 36.5	152 23.7	S 25 02.2	310 26.7	N 21 10.5	1 21.3	N 22 12.7	93 34.7	S 8 41.4	273 21.7	N 8 25.7	54.6	Capella	280 21.7	N 46 01.3	
02	93 31.6	213 19.8	S 20 37.0	167 22.9	S 25 01.9	325 28.7	N 21 10.5	16 24.1	N 22 12.7	108 37.1	S 8 41.4	287 57.3	N 8 11.9	54.6	Castor	245 57.1	N 31 50.0	
03	108 34.1	228 19.7	S 20 37.5	182 22.1	S 25 01.6	340 30.8	N 21 10.5	31 26.9	N 22 12.7	123 39.6	S 8 41.4	302 33.0	N 7 58.1	54.5	Deneb	49 26.0	N 45 22.0	
04	123 36.5	243 19.5	S 20 37.9	197 21.4	S 25 01.3	355 32.8	N 21 10.5	46 29.7	N 22 12.7	138 42.0	S 8 41.4	317 08.7	N 7 44.3	54.5	Denebola	182 25.3	N 44 26.4	
05	138 39.0	258 19.3	S 20 38.4	212 20.6	S 25 01.0	10 34.8	N 21 10.5	61 32.5	N 22 12.7	153 44.4	S 8 41.3	331 44.4	N 7 30.5	54.5				
06	153 41.5	273 19.1	S 20 38.9	227 19.8	S 25 00.7	25 36.8	N 21 10.5	76 35.3	N 22 12.6	168 46.9	S 8 41.3	346 20.2	N 7 16.6	54.5	Diphda	348 47.2	S 17 51.0	
07	168 43.9	288 18.9	S 20 39.4	242 19.1	S 25 00.4	40 38.9	N 21 10.5	91 38.1	N 22 12.6	183 49.3	S 8 41.3	0 56.0	N 7 02.7	54.5	Dubhe	193 41.5	N 61 36.8	
08	183 46.4	303 18.7	S 20 39.9	257 18.3	S 25 00.1	55 40.9	N 21 10.5	106 40.9	N 22 12.6	198 51.7	S 8 41.3	15 31.9	N 6 48.8	54.5	Elnath	278 01.8	N 28 37.7	
09	198 48.8	318 18.6	S 20 40.4	272 17.5	S 24 59.8	70 42.9	N 21 10.6	121 43.7	N 22 12.6	213 54.2	S 8 41.3	30 07.8	N 6 34.9	54.4	Etamin	90 42.7	N 51 29.3	
10	213 51.3	333 18.4	S 20 40.9	287 16.8	S 24 59.5	85 45.0	N 21 10.6	136 46.5	N 22 12.5	228 56.6	S 8 41.2	44 43.7	N 6 21.0	54.4	Enif	33 38.9	N 9 59.4	
11	228 53.8	348 18.2	S 20 41.4	302 16.0	S 24 59.2	100 47.0	N 21 10.6	151 49.4	N 22 12.5	243 59.0	S 8 41.2	59 19.7	N 6 07.0	54.4				
12	243 56.2	3 18.0	S 20 41.9	317 15.2	S 24 58.9	115 49.0	N 21 10.6	166 52.2	N 22 12.5	259 01.4	S 8 41.2	73 55.7	N 5 53.1	54.4	Fomalhaut	15 14.5	S 29 29.5	
13	258 58.7	18 17.8	S 20 42.4	332 14.5	S 24 58.6	130 51.1	N 21 10.6	181 55.0	N 22 12.5	274 03.9	S 8 41.2	88 31.7	N 5 39.1	54.4	Gacrux	171 52.3	S 57 14.9	
14	274 01.2	33 17.6	S 20 42.9	347 13.7	S 24 58.3	145 53.1	N 21 10.6	196 57.8	N 22 12.4	289 06.3	S 8 41.2	103 07.8	N 5 25.1	54.4	Gienah	175 44.0	N 17 40.6	
15	289 03.6	48 17.4	S 20 43.4	2 12.9	S 24 57.9	160 55.1	N 21 10.6	212 00.6	N 22 12.4	304 08.7	S 8 41.1	117 43.9	N 5 11.1	54.4	Hadar	148 36.9	S 60 29.4	
16	304 06.1	63 17.3	S 20 43.9	17 12.2	S 24 57.6	175 57.2	N 21 10.6	227 03.4	N 22 12.4	319 11.2	S 8 41.1	132 20.1	N 4 57.1	54.4	Hamal	327 51.0	N 23 34.9	
17	319 08.6	78 17.1	S 20 44.4	32 11.4	S 24 57.3	190 59.2	N 21 10.6	242 06.2	N 22 12.4	334 13.6	S 8 41.1	146 56.2	N 4 43.0	54.3				
18	334 11.0	93 16.9	S 20 44.9	47 10.7	S 24 57.0	206 01.2	N 21 10.6	257 09.0	N 22 12.3	349 16.0	S 8 41.1	161 32.4	N 4 29.0	54.3	Kaus aust.	83 33.0	S 34 22.4	
19	349 13.5	108 16.7	S 20 45.4	62 09.9	S 24 56.7	221 03.3	N 21 10.6	272 11.8	N 22 12.3	4 18.4	S 8 41.0	176 08.6	N 4 15.0	54.3	Kochab	137 20.9	N 74 03.1	
20	4 15.9	123 16.5	S 20 45.8	77 09.1	S 24 56.4	236 05.3	N 21 10.6	287 14.6	N 22 12.3	19 20.9	S 8 41.0	190 44.9	N 4 00.9	54.3	Markab	13 29.9	N 15 20.5	
21	19 18.4	138 16.3	S 20 46.3	92 08.4	S 24 56.0	251 07.4	N 21 10.6	302 17.4	N 22 12.3	34 23.3	S 8 41.0	205 21.2	N 3 46.8	54.3	Menkar	314 06.0	N 4 11.3	
22	34 20.9	153 16.1	S 20 46.8	107 07.6	S 24 55.7	266 09.4	N 21 10.7	317 20.2	N 22 12.2	49 25.7	S 8 41.0	219 57.4	N 3 32.7	54.3	Menkent	147 58.2	S 36 29.4	
23	49 23.3	168 15.9	S 20 47.3	122 06.9	S 24 55.4	281 11.5	N 21 10.7	332 23.0	N 22 12.2	64 28.2	S 8 41.0	234 33.8	N 3 18.7	54.3				
25 00	64 25.8	183 15.7	S 20 47.8	137 06.1	S 24 55.1	296 13.5	N 21 10.7	347 25.9	N 22 12.2	79 30.6	S 8 40.9	249 10.1	N 3 04.6	54.3	Miaplacidus	221 38.4	S 69 48.7	
01	79 28.3	198 15.5	S 20 48.3	152 05.3	S 24 54.7	311 15.6	N 21 10.7	2 28.7	N 22 12.2	94 33.0	S 8 40.9	263 46.4	N 2 50.5					

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	NOVEMBRE	13
d h	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'	'
26 00	65 24.9	183 11.1	S 20 59.2	136 48.0	S 24 46.9	297 03.0	N 21 11.0	348 33.3	N 22 11.6	80 28.8	S 8 40.4	239 45.2	S 2 34.0	54.1	NOME	360	- AR	Dec.
01	80 27.4	198 10.9	S 20 59.7	151 47.3	S 24 46.6	312 05.1	N 21 11.0	3 36.1	N 22 11.6	95 31.2	S 8 40.4	254 21.6	S 2 48.1	54.1	Acamar	315 11.4	S 40 12.2	
02	95 29.9	213 10.7	S 21 00.2	166 46.5	S 24 46.2	327 07.2	N 21 11.0	18 38.9	N 22 11.5	110 33.7	S 8 40.3	268 58.1	S 3 02.1	54.1	Achernar	335 19.7	S 57 06.7	
03	110 32.3	228 10.5	S 21 00.6	181 45.8	S 24 45.9	342 09.3	N 21 11.1	33 41.8	N 22 11.5	125 36.1	S 8 40.3	283 34.5	S 3 16.2	54.1	AcruX	173 00.8	S 63 13.9	
04	125 34.8	243 10.3	S 21 01.1	196 45.0	S 24 45.5	357 11.4	N 21 11.1	48 44.6	N 22 11.5	140 38.5	S 8 40.3	298 10.9	S 3 30.2	54.1	Adhara	255 05.8	S 29 00.1	
05	140 37.3	258 10.1	S 21 01.6	211 44.3	S 24 45.2	12 13.4	N 21 11.1	63 47.4	N 22 11.5	155 40.9	S 8 40.3	312 47.3	S 3 44.2	54.1	Aldebaran	290 39.5	N 16 33.6	
06	155 39.7	273 09.9	S 21 02.0	226 43.5	S 24 44.8	27 15.5	N 21 11.1	78 50.2	N 22 11.4	170 43.4	S 8 40.2	327 23.7	S 3 58.2	54.1				
07	170 42.2	288 09.7	S 21 02.5	241 42.8	S 24 44.4	42 17.6	N 21 11.1	93 53.0	N 22 11.4	185 45.8	S 8 40.2	342 00.1	S 4 12.2	54.1	Alioth	166 13.5	N 55 49.4	
08	185 44.7	303 09.5	S 21 03.0	256 42.1	S 24 44.1	57 19.7	N 21 11.1	108 55.8	N 22 11.4	200 48.2	S 8 40.2	356 36.5	S 4 26.1	54.1	Alkaid	152 52.6	N 49 11.3	
09	200 47.1	318 09.3	S 21 03.4	271 41.3	S 24 43.7	72 21.8	N 21 11.2	123 58.6	N 22 11.4	215 50.6	S 8 40.2	11 12.8	S 4 40.1	54.1	Alnair	27 33.0	S 46 50.6	
10	215 49.6	333 09.1	S 21 03.9	286 40.6	S 24 43.3	87 23.9	N 21 11.2	139 01.4	N 22 11.3	230 53.1	S 8 40.1	25 49.2	S 4 54.0	54.1	Alnilam	275 37.6	S 1 11.0	
11	230 52.0	348 08.9	S 21 04.4	301 39.8	S 24 43.0	102 26.0	N 21 11.2	154 04.3	N 22 11.3	245 55.5	S 8 40.1	40 25.5	S 5 08.0	54.1	Alphard	217 47.9	S 8 45.8	
12	245 54.5	3 08.7	S 21 04.8	316 39.1	S 24 42.6	117 28.1	N 21 11.3	169 07.1	N 22 11.3	260 57.9	S 8 40.1	55 01.8	S 5 21.9	54.1				
13	260 57.0	18 08.5	S 21 05.3	331 38.3	S 24 42.2	132 30.2	N 21 11.3	184 09.9	N 22 11.3	276 00.3	S 8 40.1	69 38.0	S 5 35.8	54.1	Alphecca	126 04.2	N 26 37.9	
14	275 59.4	33 08.3	S 21 05.7	346 37.6	S 24 41.9	147 32.2	N 21 11.3	199 12.7	N 22 11.2	291 02.7	S 8 40.0	84 14.3	S 5 49.6	54.1	Alpheratz	357 34.7	N 29 13.8	
15	291 01.9	48 08.0	S 21 06.2	1 36.9	S 24 41.5	162 34.3	N 21 11.3	214 15.5	N 22 11.2	306 05.2	S 8 40.0	98 50.5	S 6 03.5	54.1	Altair	62 00.3	N 8 56.1	
16	306 04.4	63 07.8	S 21 06.7	16 36.1	S 24 41.1	177 36.4	N 21 11.3	229 18.3	N 22 11.2	321 07.6	S 8 40.0	113 26.7	S 6 17.3	54.1	Ankaa	353 07.0	S 42 10.4	
17	321 06.8	78 07.6	S 21 07.1	31 35.4	S 24 40.8	192 38.5	N 21 11.4	244 21.1	N 22 11.2	336 10.0	S 8 40.0	128 02.9	S 6 31.1	54.1	Antares	112 16.4	S 26 29.2	
18	336 09.3	93 07.4	S 21 07.6	46 34.6	S 24 40.4	207 40.6	N 21 11.4	259 24.0	N 22 11.1	351 12.4	S 8 39.9	142 39.0	S 6 44.9	54.1				
19	351 11.8	108 07.2	S 21 08.0	61 33.9	S 24 40.0	222 42.7	N 21 11.4	274 26.8	N 22 11.1	6 14.9	S 8 39.9	157 15.1	S 6 58.7	54.1	Arcturus	145 48.4	N 19 03.2	
20	6 14.2	123 07.0	S 21 08.5	76 33.2	S 24 39.6	237 44.8	N 21 11.4	289 29.6	N 22 11.1	21 17.3	S 8 39.9	171 51.2	S 7 12.4	54.1	Atria	107 11.3	S 69 04.4	
21	21 16.7	138 06.8	S 21 08.9	91 32.4	S 24 39.2	252 46.9	N 21 11.5	304 32.4	N 22 11.0	36 19.7	S 8 39.9	186 27.2	S 7 26.1	54.1	Avior	234 14.6	S 59 35.0	
22	36 19.2	153 06.6	S 21 09.4	106 31.7	S 24 38.9	267 49.1	N 21 11.5	319 35.2	N 22 11.0	51 22.1	S 8 39.8	201 03.3	S 7 39.8	54.1	Bellatrix	278 22.8	N 6 22.4	
23	51 21.6	168 06.4	S 21 09.8	121 31.0	S 24 38.5	282 51.2	N 21 11.5	334 38.0	N 22 11.0	66 24.5	S 8 39.8	215 39.2	S 7 53.5	54.1	Betelgeuse	270 52.0	N 7 24.8	
27 00	66 24.1	183 06.2	S 21 10.3	136 30.2	S 24 38.1	297 53.3	N 21 11.5	349 40.8	N 22 11.0	81 27.0	S 8 39.8	230 15.2	S 8 07.2	54.1	Canopus	263 52.1	S 52 42.2	
01	81 26.5	198 06.0	S 21 10.7	151 29.5	S 24 37.7	312 55.4	N 21 11.6	4 43.7	N 22 10.9	96 29.4	S 8 39.8	244 51.1	S 8 20.8	54.1	Capella	280 21.7	N 46 01.3	
02	96 29.0	213 05.8	S 21 11.2	166 28.7	S 24 37.3	327 57.5	N 21 11.6	19 46.5	N 22 10.9	111 31.8	S 8 39.7	259 27.0	S 8 34.4	54.1	Castor	245 57.1	N 31 50.0	
03	111 31.5	228 05.6	S 21 11.6	181 28.0	S 24 37.0	342 59.6	N 21 11.6	34 49.3	N 22 10.9	126 34.2	S 8 39.7	274 02.8	S 8 48.0	54.1	Deneb	49 26.0	N 45 22.4	
04	126 33.9	243 05.4	S 21 12.1	196 27.3	S 24 36.6	358 01.7	N 21 11.6	49 52.1	N 22 10.9	141 36.6	S 8 39.7	288 38.6	S 9 01.5	54.1	Denebola	182 25.3	N 44 26.0	
05	141 36.4	258 05.2	S 21 12.5	211 26.5	S 24 36.2	13 03.8	N 21 11.7	64 54.9	N 22 10.8	156 39.1	S 8 39.6	303 14.4	S 9 15.0	54.1				
06	156 38.9	273 05.0	S 21 13.0	226 25.8	S 24 35.8	28 05.9	N 21 11.7	79 57.7	N 22 10.8	171 41.5	S 8 39.6	317 50.1	S 9 28.5	54.1	Diphda	348 47.2	S 17 51.0	
07	171 41.3	288 04.8	S 21 13.4	241 25.1	S 24 35.4	43 08.1	N 21 11.7	95 00.6	N 22 10.8	186 43.9	S 8 39.6	332 25.8	S 9 41.9	54.1	Dubhe	193 41.4	N 61 36.8	
08	186 43.8	303 04.5	S 21 13.9	256 24.3	S 24 35.0	58 10.2	N 21 11.8	110 03.4	N 22 10.8	201 46.3	S 8 39.6	347 01.4	S 9 55.3	54.1	Elnath	278 01.7	N 28 37.7	
09	201 46.3	318 04.3	S 21 14.3	271 23.6	S 24 34.6	73 12.3	N 21 11.8	125 06.2	N 22 10.7	216 48.7	S 8 39.5	1 37.0	S 10 08.7	54.2	Etamin	90 42.7	N 51 29.3	
10	216 48.7	333 04.1	S 21 14.8	286 22.9	S 24 34.2	88 14.4	N 21 11.8	140 09.0	N 22 10.7	231 51.1	S 8 39.5	16 12.5	S 10 22.1	54.2	Enif	33 38.9	N 9 59.4	
11	231 51.2	348 03.9	S 21 15.2	301 22.2	S 24 33.8	103 16.5	N 21 11.8	155 11.8	N 22 10.7	246 53.6	S 8 39.5	30 48.0	S 10 35.4	54.2				
12	246 53.6	3 03.7	S 21 15.7	316 21.4	S 24 33.4	118 18.7	N 21 11.9	170 14.6	N 22 10.7	261 56.0	S 8 39.5	45 23.5	S 10 48.7	54.2	Fomalhaut	15 14.5	S 29 29.5	
13	261 56.1	18 03.5	S 21 16.1	331 20.7	S 24 33.0	133 20.8	N 21 11.9	185 17.5	N 22 10.6	276 58.4	S 8 39.4	59 58.9	S 11 01.9	54.2	Gacrux	171 52.3	S 57 14.9	
14	276 58.6	33 03.3	S 21 16.6	346 20.0	S 24 32.6	148 22.9	N 21 11.9	200 20.3	N 22 10.6	292 00.8	S 8 39.4	74 34.2	S 11 15.1	54.2	Gienah	175 44.0	S 17 40.6	
15	292 01.0	48 03.1	S 21 17.0	1 19.2	S 24 32.2	163 25.0	N 21 12.0	215 23.1	N 22 10.6	307 03.2	S 8 39.4	89 09.6	S 11 28.3	54.2	Hadar	148 36.9	S 60 29.4	
16	307 03.5	63 02.9	S 21 17.4	16 18.5	S 24 31.8	178 27.2	N 21 12.0	230 25.9	N 22 10.6	322 05.7	S 8 39.4	103 44.8	S 11 41.5	54.2	Hamal	327 51.1	N 23 34.9	
17	322 06.0	78 02.7	S 21 17.9	31 17.8	S 24 31.4	193 29.3	N 21 12.0	245 28.7	N 22 10.5	337 08.1	S 8 39.3	118 20.0	S 11 54.6	54.2				
18	337 08.4	93 02.4	S 21 18.3	46 17.1	S 24 31.0	208 31.4	N 21 12.1	260 31.5	N 22 10.5	352 10.5	S 8 39.3	132 55.2	S 12 07.6	54.2	Kaus aust.	83 33.0	S 34 22.4	
19	352 10.9	108 02.2	S 21 18.8	61 16.3	S 24 30.6	223 33.5	N 21 12.1	275 34.4	N 22 10.5	7 12.9	S 8 39.3	147 30.3	S 12 20.6	54.2	Kochab	137 20.9	N 74 03.1	
20	7 13.4	123 02.0	S 21 19.2	76 15.6	S 24 30.2	238 35.7	N 21 12.1	290 37.2	N 22 10.5	22 15.3	S 8 39.2	162 05.3	S 12 33.6	54.2	Markab	13 29.9	N 15 20.5	
21	22 15.8	138 01.8	S 21 19.6	91 14.9	S 24 29.8	253 37.8	N 21 12.1	305 40.0	N 22 10.4	37 17.7	S 8 39.2	176 40.3	S 12 46.5	54.2	Menkar	314 06.0	N 4 11.3	
22	37 18.3	153 01.6	S 21 20.1	106 14.2	S 24 29.4	268 39.9	N 21 12.2	320 42.8	N 22 10.4	52 20.2	S 8 39.2	191 15.2	S 12 59.4	54.2	Menkent	147 58.2	S 36 29.4	
23	52 20.8	168 01.4	S 21 20.5	121 13.4	S 24 29.0	283 42.1	N 21 12.2	335 45.6	N 22 10.4	67 22.6	S 8 39.2	205 50.1	S 13 12.3	54.2				
28 00	67 23.2	183 01.2	S 21 21.0	136 12.7	S 24 28.6	298 44.2	N 21 12.2	350 48.5	N 22 10.3	82 25.0	S 8 39.1	220 24.9	S 13 25.1	54.3	Miaplacidus	221 38.3	S 69 48.7	
01	82 25.7	198 00.9	S 21 21.4	151 12.0	S 24 28.2	313 46.4	N 21 12.3	5 51.3	N 22 10.3	97 27.4	S 8 39.1	234 59.6	S 13 37.8	5				

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	NOVEMBRE	16
d h	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	o ' "	'	NOME	360	- AR	Dec.
29 00	68 22.4	182 55.9	S 21 31.2	135 55.5	S 24 18.4	299 35.9	N 21 13.2	351 56.1	N 22 09.7	83 22.9	S 8 38.5	210 00.3	S 18 16.5	54.5	NOME	360	- AR	Dec.
01	83 24.8	197 55.7	S 21 31.6	150 54.8	S 24 18.0	314 38.1	N 21 13.2	6 58.9	N 22 09.7	98 25.3	S 8 38.4	224 33.3	S 18 27.9	54.5	Acamar	315 11.4	S 40 12.3	
02	98 27.3	212 55.5	S 21 32.0	165 54.1	S 24 17.5	329 40.3	N 21 13.2	22 01.8	N 22 09.7	113 27.7	S 8 38.4	239 06.3	S 18 39.2	54.5	Achernar	335 19.7	S 57 06.7	
03	113 29.8	227 55.3	S 21 32.5	180 53.4	S 24 17.1	344 42.4	N 21 13.3	37 04.6	N 22 09.6	128 30.2	S 8 38.4	253 39.2	S 18 50.4	54.5	Acruz	173 00.8	S 63 13.9	
04	128 32.2	242 55.1	S 21 32.9	195 52.7	S 24 16.7	359 44.6	N 21 13.3	52 07.4	N 22 09.6	143 32.6	S 8 38.3	268 12.0	S 19 01.6	54.5	Adhara	255 05.7	S 29 00.1	
05	143 34.7	257 54.8	S 21 33.3	210 52.0	S 24 16.2	14 46.8	N 21 13.4	67 10.2	N 22 09.6	158 35.0	S 8 38.3	282 44.7	S 19 12.6	54.6	Aldebaran	290 39.5	N 16 33.6	
06	158 37.1	272 54.6	S 21 33.7	225 51.3	S 24 15.8	29 49.0	N 21 13.4	82 13.0	N 22 09.6	173 37.4	S 8 38.3	297 17.4	S 19 23.7	54.6				
07	173 39.6	287 54.4	S 21 34.1	240 50.5	S 24 15.3	44 51.1	N 21 13.5	97 15.9	N 22 09.5	188 39.8	S 8 38.3	311 49.9	S 19 34.6	54.6	Alioth	166 13.5	N 55 49.4	
08	188 42.1	302 54.2	S 21 34.5	255 49.8	S 24 14.9	59 53.3	N 21 13.5	112 18.7	N 22 09.5	203 42.2	S 8 38.2	326 22.4	S 19 45.5	54.6	Alkaid	152 52.6	N 49 11.3	
09	203 44.5	317 53.9	S 21 34.9	270 49.1	S 24 14.4	74 55.5	N 21 13.5	127 21.5	N 22 09.5	218 44.6	S 8 38.2	340 54.8	S 19 56.2	54.6	Alnair	27 33.0	S 46 50.6	
10	218 47.0	332 53.7	S 21 35.4	285 48.4	S 24 14.0	89 57.7	N 21 13.6	142 24.3	N 22 09.5	233 47.0	S 8 38.2	355 27.1	S 20 06.9	54.6	Alnilam	275 37.6	S 1 11.0	
11	233 49.5	347 53.5	S 21 35.8	300 47.7	S 24 13.5	104 59.9	N 21 13.6	157 27.2	N 22 09.4	248 49.4	S 8 38.1	9 59.3	S 20 17.6	54.6	Alphard	217 47.9	S 8 45.8	
12	248 51.9	2 53.3	S 21 36.2	315 47.0	S 24 13.1	120 02.0	N 21 13.7	172 30.0	N 22 09.4	263 51.8	S 8 38.1	24 31.5	S 20 28.1	54.7				
13	263 54.4	17 53.0	S 21 36.6	330 46.3	S 24 12.6	135 04.2	N 21 13.7	187 32.8	N 22 09.4	278 54.3	S 8 38.1	39 03.5	S 20 38.6	54.7	Alphecca	126 04.2	N 26 37.9	
14	278 56.9	32 52.8	S 21 37.0	345 45.6	S 24 12.2	150 06.4	N 21 13.8	202 35.6	N 22 09.3	293 56.7	S 8 38.0	55 35.5	S 20 48.9	54.7	Alpheratz	357 34.7	N 29 13.8	
15	293 59.3	47 52.6	S 21 37.4	0 44.9	S 24 11.7	165 08.6	N 21 13.8	217 38.4	N 22 09.3	308 59.1	S 8 38.0	68 07.3	S 20 59.2	54.7	Altair	62 00.3	N 8 56.1	
16	309 01.8	62 52.4	S 21 37.8	15 44.2	S 24 11.3	180 10.8	N 21 13.9	232 41.3	N 22 09.3	324 01.5	S 8 38.0	82 39.1	S 21 09.4	54.7	Ankaa	353 07.0	S 42 10.4	
17	324 04.2	77 52.1	S 21 38.2	30 43.5	S 24 10.8	195 13.0	N 21 13.9	247 44.1	N 22 09.3	339 03.9	S 8 38.0	97 10.8	S 21 19.6	54.7	Antares	112 16.4	S 26 29.2	
18	339 06.7	92 51.9	S 21 38.6	45 42.8	S 24 10.3	210 15.2	N 21 14.0	262 46.9	N 22 09.2	354 06.3	S 8 37.9	111 42.4	S 21 29.6	54.7				
19	354 09.2	107 51.7	S 21 39.0	60 42.1	S 24 09.9	225 17.4	N 21 14.0	277 49.7	N 22 09.2	9 08.7	S 8 37.9	126 14.0	S 21 39.5	54.8	Arcturus	145 48.4	N 19 03.2	
20	9 11.6	122 51.5	S 21 39.4	75 41.4	S 24 09.4	240 19.6	N 21 14.1	292 52.6	N 22 09.2	24 11.1	S 8 37.9	140 45.4	S 21 49.4	54.8	Atria	107 11.3	S 69 04.4	
21	24 14.1	137 51.2	S 21 39.8	90 40.7	S 24 09.0	255 21.8	N 21 14.1	307 55.4	N 22 09.2	39 13.5	S 8 37.8	155 16.7	S 21 59.1	54.8	Avior	234 14.6	S 59 35.0	
22	39 16.6	152 51.0	S 21 40.2	105 40.0	S 24 08.5	270 24.0	N 21 14.2	322 58.2	N 22 09.1	54 15.9	S 8 37.8	169 48.0	S 22 08.8	54.8	Bellatrix	278 22.7	N 6 22.4	
23	54 19.0	167 50.8	S 21 40.6	120 39.3	S 24 08.0	285 26.2	N 21 14.2	338 01.0	N 22 09.1	69 18.3	S 8 37.8	184 19.1	S 22 18.4	54.8	Betelgeuse	270 52.0	N 7 24.8	
30 00	69 21.5	182 50.5	S 21 41.1	135 38.6	S 24 07.6	300 28.4	N 21 14.3	353 03.8	N 22 09.1	84 20.8	S 8 37.7	198 50.2	S 22 27.8	54.8	Canopus	263 52.0	S 52 42.2	
01	84 24.0	197 50.3	S 21 41.5	150 37.9	S 24 07.1	315 30.6	N 21 14.3	8 06.7	N 22 09.0	99 23.2	S 8 37.7	213 21.2	S 22 37.2	54.8	Capella	280 21.7	N 46 01.3	
02	99 26.4	212 50.1	S 21 41.9	165 37.2	S 24 06.6	330 32.8	N 21 14.4	23 09.5	N 22 09.0	114 25.6	S 8 37.7	227 52.1	S 22 46.5	54.9	Castor	245 57.0	N 31 50.0	
03	114 28.9	227 49.9	S 21 42.3	180 36.5	S 24 06.2	345 35.0	N 21 14.4	38 12.3	N 22 09.0	129 28.0	S 8 37.6	242 22.9	S 22 55.7	54.9	Deneb	49 26.0	N 45 22.4	
04	129 31.4	242 49.6	S 21 42.7	195 35.8	S 24 05.7	0 37.2	N 21 14.5	53 15.1	N 22 09.0	144 30.4	S 8 37.6	256 53.6	S 23 04.8	54.9	Denebola	182 25.3	N 44 26.0	
05	144 33.8	257 49.4	S 21 43.1	210 35.1	S 24 05.2	15 39.4	N 21 14.5	68 18.0	N 22 08.9	159 32.8	S 8 37.6	271 24.2	S 23 13.8	54.9				
06	159 36.3	272 49.2	S 21 43.4	225 34.4	S 24 04.8	30 41.6	N 21 14.6	83 20.8	N 22 08.9	174 35.2	S 8 37.6	285 54.7	S 23 22.6	54.9	Diphda	348 47.2	S 17 51.0	
07	174 38.7	287 48.9	S 21 43.8	240 33.8	S 24 04.3	45 43.8	N 21 14.6	98 23.6	N 22 08.9	189 37.6	S 8 37.5	300 25.2	S 23 31.4	54.9	Dubhe	193 41.4	N 61 36.8	
08	189 41.2	302 48.7	S 21 44.2	255 33.1	S 24 03.8	60 46.0	N 21 14.7	113 26.4	N 22 08.9	204 40.0	S 8 37.5	314 55.5	S 23 40.1	55.0	Elnath	278 01.7	N 28 37.7	
09	204 43.7	317 48.5	S 21 44.6	270 32.4	S 24 03.3	75 48.2	N 21 14.7	128 29.3	N 22 08.8	219 42.4	S 8 37.5	329 25.8	S 23 48.7	55.0	Etamin	90 42.7	N 51 29.3	
10	219 46.1	332 48.2	S 21 45.0	285 31.7	S 24 02.9	90 50.4	N 21 14.8	143 32.1	N 22 08.8	234 44.8	S 8 37.4	343 55.9	S 23 57.1	55.0	Enif	33 38.9	N 9 59.4	
11	234 48.6	347 48.0	S 21 45.4	300 31.0	S 24 02.4	105 52.6	N 21 14.8	158 34.9	N 22 08.8	249 47.2	S 8 37.4	358 26.0	S 24 05.5	55.0				
12	249 51.1	2 47.8	S 21 45.8	315 30.3	S 24 01.9	120 54.9	N 21 14.9	173 37.7	N 22 08.8	264 49.6	S 8 37.4	12 56.0	S 24 13.7	55.0	Fomalhaut	15 14.5	S 29 29.5	
13	264 53.5	17 47.6	S 21 46.2	330 29.6	S 24 01.4	135 57.1	N 21 14.9	188 40.6	N 22 08.7	279 52.0	S 8 37.3	27 25.9	S 24 21.9	55.0	Gacrux	171 52.3	S 57 14.9	
14	279 56.0	32 47.3	S 21 46.6	345 28.9	S 24 00.9	150 59.3	N 21 15.0	203 43.4	N 22 08.7	294 54.4	S 8 37.3	41 55.7	S 24 29.9	55.1	Gienah	175 44.0	S 17 40.6	
15	294 58.5	47 47.1	S 21 47.0	0 28.2	S 24 00.5	166 01.5	N 21 15.1	218 46.2	N 22 08.7	309 56.9	S 8 37.3	56 25.4	S 24 37.8	55.1	Hadar	148 36.9	S 60 29.4	
16	310 00.9	62 46.9	S 21 47.4	15 27.5	S 24 00.0	181 03.7	N 21 15.1	233 49.0	N 22 08.6	324 59.3	S 8 37.2	70 55.0	S 24 45.6	55.1	Hamal	327 51.0	N 23 34.9	
17	325 03.4	77 46.6	S 21 47.8	30 26.9	S 23 59.5	196 06.0	N 21 15.2	248 51.9	N 22 08.6	340 01.7	S 8 37.2	85 24.6	S 24 53.3	55.1				
18	340 05.9	92 46.4	S 21 48.2	45 26.2	S 23 59.0	211 08.2	N 21 15.2	263 54.7	N 22 08.6	355 04.1	S 8 37.2	99 54.0	S 25 00.8	55.1	Kaus aust.	83 33.0	S 34 22.4	
19	355 08.3	107 46.2	S 21 48.6	60 25.5	S 23 58.5	226 10.4	N 21 15.3	278 57.5	N 22 08.6	10 06.5	S 8 37.1	114 23.4	S 25 08.3	55.1	Kochab	137 20.9	N 74 03.1	
20	10 10.8	122 45.9	S 21 48.9	75 24.8	S 23 58.0	241 12.6	N 21 15.3	294 00.3	N 22 08.5	25 08.9	S 8 37.1	128 52.7	S 25 15.6	55.2	Markab	13 29.9	N 15 20.5	
21	25 13.2	137 45.7	S 21 49.3	90 24.1	S 23 57.5	256 14.9	N 21 15.4	309 03.1	N 22 08.5	40 11.3	S 8 37.1	143 21.8	S 25 22.8	55.2	Menkar	314 06.0	N 4 11.3	
22	40 15.7	152 45.5	S 21 49.7	105 23.4	S 23 57.0	271 17.1	N 21 15.4	324 06.0	N 22 08.5	55 13.7	S 8 37.0	157 50.9	S 25 29.9	55.2	Menkent	147 58.2	S 36 29.4	
23	55 18.2	167 45.2	S 21 50.1	120 22.7	S 23 56.6	286 19.3	N 21 15.5	339 08.8	N 22 08.5	70 16.1	S 8 37.0	172 19.9	S 25 36.9	55.2				
Dic 01 00	70 20.6	182 45.0	S 21 50.5	135 22.1	S 23 56.1	301 21.6	N 21 15.6	354 11.6	N 22 08.4	85 18.5	S 8 37.0	186 48.9	S 25 43.7	55.2	Miaplacidus	221 38.2	S 69 48.7	
01	85 23.1	197 44.7	S 21 50.9	150 21.4	S 23 55.6	316 23.8	N 21 15.6	9 14.4	N 22									

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	NOVEMBRE	19
02 00	71 19.8	182 39.3	S 21 59.5	135 05.9	S 23 43.9	302 15.5	N 21 17.1	355 19.4	N 22 07.8	86 16.1	S 8 36.2	173 59.3	S 27 48.1	55.7	NOME	360	- AR	Dec.
01	86 22.2	197 39.0	S 21 59.9	150 05.2	S 23 43.4	317 17.8	N 21 17.1	10 22.3	N 22 07.7	101 18.5	S 8 36.1	188 26.3	S 27 51.5	55.7	Acamar	315	11.4	S 40 12.3
02	101 24.7	212 38.8	S 22 00.2	165 04.5	S 23 42.9	332 20.1	N 21 17.2	25 25.1	N 22 07.7	116 20.9	S 8 36.1	202 53.3	S 27 54.8	55.7	Achernar	335	19.7	S 57 06.7
03	116 27.2	227 38.5	S 22 00.6	180 03.9	S 23 42.3	347 22.3	N 21 17.3	40 27.9	N 22 07.7	131 23.3	S 8 36.1	217 20.2	S 27 57.9	55.7	Acruz	173	00.8	S 63 13.9
04	131 29.6	242 38.3	S 22 01.0	195 03.2	S 23 41.8	2 24.6	N 21 17.3	55 30.8	N 22 07.7	146 25.7	S 8 36.0	231 47.1	S 28 00.9	55.7	Adhara	255	05.7	S 29 00.1
05	146 32.1	257 38.0	S 22 01.3	210 02.5	S 23 41.3	17 26.9	N 21 17.4	70 33.6	N 22 07.6	161 28.1	S 8 36.0	246 13.9	S 28 03.7	55.8	Aldebaran	290	39.4	N 16 33.6
06	161 34.6	272 37.8	S 22 01.7	225 01.9	S 23 40.8	32 29.2	N 21 17.5	85 36.4	N 22 07.6	176 30.5	S 8 36.0	260 40.7	S 28 06.4	55.8				
07	176 37.0	287 37.6	S 22 02.0	240 01.2	S 23 40.2	47 31.4	N 21 17.6	100 39.2	N 22 07.6	191 32.9	S 8 35.9	275 07.4	S 28 08.9	55.8	Alioth	166	13.5	N 55 49.3
08	191 39.5	302 37.3	S 22 02.4	255 00.5	S 23 39.7	62 33.7	N 21 17.6	115 42.1	N 22 07.5	206 35.3	S 8 35.9	289 34.1	S 28 11.2	55.8	Alkaid	152	52.5	N 49 11.2
09	206 42.0	317 37.1	S 22 02.8	269 59.9	S 23 39.2	77 36.0	N 21 17.7	130 44.9	N 22 07.5	221 37.7	S 8 35.9	304 00.7	S 28 13.4	55.8	Alnair	27	33.0	S 46 50.6
10	221 44.4	332 36.8	S 22 03.1	284 59.2	S 23 38.7	92 38.3	N 21 17.8	145 47.7	N 22 07.5	236 40.1	S 8 35.8	318 27.3	S 28 15.5	55.8	Alnilam	275	37.6	S 1 11.1
11	236 46.9	347 36.6	S 22 03.5	299 58.6	S 23 38.1	107 40.5	N 21 17.8	160 50.5	N 22 07.5	251 42.5	S 8 35.8	332 53.8	S 28 17.4	55.9	Alphard	217	47.9	S 8 45.8
12	251 49.3	2 36.3	S 22 03.8	314 57.9	S 23 37.6	122 42.8	N 21 17.9	175 53.4	N 22 07.4	266 44.9	S 8 35.8	347 20.3	S 28 19.1	55.9				
13	266 51.8	17 36.1	S 22 04.2	329 57.2	S 23 37.1	137 45.1	N 21 18.0	190 56.2	N 22 07.4	281 47.3	S 8 35.7	1 46.8	S 28 20.7	55.9	Alphecca	126	04.2	N 26 37.9
14	281 54.3	32 35.9	S 22 04.6	344 56.6	S 23 36.5	152 47.4	N 21 18.0	205 59.0	N 22 07.4	296 49.7	S 8 35.7	16 13.2	S 28 22.1	55.9	Alpheratz	357	34.7	N 29 13.9
15	296 56.7	47 35.6	S 22 04.9	359 55.9	S 23 36.0	167 49.7	N 21 18.1	221 01.9	N 22 07.4	311 52.1	S 8 35.7	30 39.5	S 28 23.4	55.9	Altair	62	00.3	N 8 56.1
16	311 59.2	62 35.4	S 22 05.3	14 55.3	S 23 35.4	182 52.0	N 21 18.2	236 04.7	N 22 07.3	326 54.5	S 8 35.6	45 05.8	S 28 24.5	56.0	Ankaa	353	07.0	S 42 10.4
17	327 01.7	77 35.1	S 22 05.6	29 54.6	S 23 34.9	197 54.2	N 21 18.3	251 07.5	N 22 07.3	341 56.9	S 8 35.6	59 32.1	S 28 25.4	56.0	Antares	112	16.4	S 26 29.2
18	342 04.1	92 34.9	S 22 06.0	44 54.0	S 23 34.4	212 56.5	N 21 18.3	266 10.3	N 22 07.3	356 59.3	S 8 35.6	73 58.4	S 28 26.2	56.0				
19	357 06.6	107 34.6	S 22 06.3	59 53.3	S 23 33.8	227 58.8	N 21 18.4	281 13.2	N 22 07.2	12 01.7	S 8 35.5	88 24.6	S 28 26.8	56.0	Arcturus	145	48.4	N 19 03.2
20	12 09.1	122 34.4	S 22 06.7	74 52.6	S 23 33.3	243 01.1	N 21 18.5	296 16.0	N 22 07.2	27 04.1	S 8 35.5	102 50.8	S 28 27.3	56.0	Atria	107	11.3	S 69 04.4
21	27 11.5	137 34.1	S 22 07.0	89 52.0	S 23 32.7	258 03.4	N 21 18.6	311 18.8	N 22 07.2	42 06.5	S 8 35.4	117 17.0	S 28 27.6	56.1	Avior	234	14.6	S 59 35.0
22	42 14.0	152 33.9	S 22 07.4	104 51.3	S 23 32.2	273 05.7	N 21 18.6	326 21.6	N 22 07.2	57 08.9	S 8 35.4	131 43.1	S 28 27.7	56.1	Bellatrix	278	22.7	N 6 22.4
23	57 16.5	167 33.6	S 22 07.7	119 50.7	S 23 31.7	288 08.0	N 21 18.7	341 24.5	N 22 07.1	72 11.3	S 8 35.4	146 09.2	S 28 27.7	56.1	Betelgeuse	270	51.9	N 7 24.8
03 00	72 18.9	182 33.4	S 22 08.1	134 50.0	S 23 31.1	303 10.3	N 21 18.8	356 27.3	N 22 07.1	87 13.7	S 8 35.3	160 35.3	S 28 27.5	56.1	Canopus	263	52.0	S 52 42.3
01	87 21.4	197 33.1	S 22 08.4	149 49.4	S 23 30.6	318 12.6	N 21 18.9	11 30.1	N 22 07.1	102 16.1	S 8 35.3	175 01.4	S 28 27.2	56.1	Capella	280	21.7	N 46 01.3
02	102 23.8	212 32.9	S 22 08.8	164 48.7	S 23 30.0	333 14.9	N 21 18.9	26 33.0	N 22 07.0	117 18.5	S 8 35.3	189 27.5	S 28 26.7	56.2	Castor	245	57.0	N 31 50.0
03	117 26.3	227 32.6	S 22 09.1	179 48.1	S 23 29.5	348 17.2	N 21 19.0	41 35.8	N 22 07.0	132 20.9	S 8 35.2	203 53.5	S 28 26.0	56.2	Deneb	49	26.1	N 45 22.4
04	132 28.8	242 32.4	S 22 09.5	194 47.4	S 23 28.9	3 19.5	N 21 19.1	56 38.6	N 22 07.0	147 23.3	S 8 35.2	218 19.5	S 28 25.2	56.2	Denebola	182	25.3	N 14 26.0
05	147 31.2	257 32.1	S 22 09.8	209 46.8	S 23 28.4	18 21.8	N 21 19.2	71 41.4	N 22 07.0	162 25.7	S 8 35.2	232 45.5	S 28 24.2	56.2				
06	162 33.7	272 31.9	S 22 10.2	224 46.1	S 23 27.8	33 24.1	N 21 19.2	86 44.3	N 22 06.9	177 28.0	S 8 35.1	247 11.5	S 28 23.1	56.2	Diphda	348	47.2	S 17 51.0
07	177 36.2	287 31.6	S 22 10.5	239 45.5	S 23 27.3	48 26.4	N 21 19.3	101 47.1	N 22 06.9	192 30.4	S 8 35.1	261 37.5	S 28 21.8	56.3	Dubhe	193	41.3	N 61 36.8
08	192 38.6	302 31.4	S 22 10.9	254 44.8	S 23 26.7	63 28.7	N 21 19.4	116 49.9	N 22 06.9	207 32.8	S 8 35.0	276 03.5	S 28 20.3	56.3	Elnath	278	01.7	N 28 37.7
09	207 41.1	317 31.1	S 22 11.2	269 44.2	S 23 26.2	78 31.0	N 21 19.5	131 52.8	N 22 06.9	222 35.2	S 8 35.0	290 29.5	S 28 18.6	56.3	Etamin	90	42.7	N 51 29.2
10	222 43.6	332 30.9	S 22 11.5	284 43.5	S 23 25.6	93 33.3	N 21 19.6	146 55.6	N 22 06.8	237 37.6	S 8 35.0	304 55.5	S 28 16.8	56.3	Enif	33	38.9	N 9 59.4
11	237 46.0	347 30.6	S 22 11.9	299 42.9	S 23 25.0	108 35.7	N 21 19.6	161 58.4	N 22 06.8	252 40.0	S 8 34.9	319 21.4	S 28 14.9	56.3				
12	252 48.5	2 30.4	S 22 12.2	314 42.2	S 23 24.5	123 38.0	N 21 19.7	177 01.2	N 22 06.8	267 42.4	S 8 34.9	333 47.4	S 28 12.7	56.4	Fomalhaut	15	14.6	S 29 29.5
13	267 51.0	17 30.1	S 22 12.6	329 41.6	S 23 23.9	138 40.3	N 21 19.8	192 04.1	N 22 06.7	282 44.8	S 8 34.9	348 13.4	S 28 10.4	56.4	Gacrux	171	52.2	S 57 14.9
14	282 53.4	32 29.9	S 22 12.9	344 41.0	S 23 23.4	153 42.6	N 21 19.9	207 06.9	N 22 06.7	297 47.2	S 8 34.8	2 39.4	S 28 08.0	56.4	Gienah	175	43.9	S 17 40.6
15	297 55.9	47 29.6	S 22 13.2	359 40.3	S 23 22.8	168 44.9	N 21 20.0	222 09.7	N 22 06.7	312 49.6	S 8 34.8	17 05.3	S 28 05.4	56.4	Hadar	148	36.8	S 60 29.4
16	312 58.3	62 29.4	S 22 13.6	14 39.7	S 23 22.2	183 47.2	N 21 20.0	237 12.6	N 22 06.7	327 52.0	S 8 34.8	31 31.3	S 28 02.6	56.4	Hamal	327	51.0	N 23 34.9
17	328 00.8	77 29.1	S 22 13.9	29 39.0	S 23 21.7	198 49.6	N 21 20.1	252 15.4	N 22 06.6	342 54.4	S 8 34.7	45 57.3	S 27 59.6	56.5				
18	343 03.8	92 28.9	S 22 14.2	44 38.4	S 23 21.1	213 51.9	N 21 20.2	267 18.2	N 22 06.6	357 56.8	S 8 34.7	60 23.3	S 27 56.5	56.5	Kaus aust.	83	33.0	S 34 22.4
19	358 05.7	107 28.6	S 22 14.6	59 37.8	S 23 20.5	228 54.2	N 21 20.3	282 21.0	N 22 06.6	12 59.2	S 8 34.6	74 49.4	S 27 53.3	56.5	Kochab	137	20.9	N 74 03.1
20	13 08.2	122 28.4	S 22 14.9	74 37.1	S 23 20.0	243 56.5	N 21 20.4	297 23.9	N 22 06.5	28 01.6	S 8 34.6	89 15.4	S 27 49.8	56.5	Markab	13	29.9	N 15 20.5
21	28 10.7	137 28.1	S 22 15.3	89 36.5	S 23 19.4	258 58.9	N 21 20.5	312 26.7	N 22 06.5	43 03.9	S 8 34.6	103 41.5	S 27 46.2	56.5	Menkar	314	06.0	N 4 11.3
22	43 13.1	152 27.9	S 22 15.6	104 35.8	S 23 18.8	274 01.2	N 21 20.5	327 29.5	N 22 06.5	58 06.3	S 8 34.5	118 07.5	S 27 42.5	56.6	Menkent	147	58.2	S 36 29.4
23	58 15.6	167 27.6	S 22 15.9	119 35.2	S 23 18.3	289 03.5	N 21 20.6	342 32.4	N 22 06.5	73 08.7	S 8 34.5	132 33.6	S 27 38.5	56.6				
04 00	73 18.1	182 27.4	S 22 16.3	134 34.6	S 23 17.7	304 05.9	N 21 20.7	357 35.2	N 22 06.4	88 11.1	S 8 34.5	146 59.7	S 27 34.5	56.6	Miaplacidus	221	38.2	S 69 48.8
01	88 20.5	197 27.1	S 22 16.6	149 33.9	S 23 17.1	319 08.2	N 21 20.8	12 38.0	N 22 06.4	103 13.5	S 8 34.4	161 25.9	S 27 30.2	56.6	Mirfak	308	28.0	N 49 57.0
02	103 23.0																	

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	NOVEMBRE	22
d h	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "
05 00	74 17.2	182 21.2 S 22 24.0	134 19.5 S 23 03.7	305 02.2 N 21 22.8	358 43.1 N 22 05.8	89 08.5 S 8 33.5	133 36.6 S 25 09.5	57.1	NOME	360	- AR	Dec.
01	89 19.7	197 20.9 S 22 24.3	149 18.9 S 23 03.1	320 04.6 N 21 22.9	13 45.9 N 22 05.7	104 10.9 S 8 33.5	148 03.7 S 25 01.6	57.1	Acamar	315 11.4	S 40 12.3	
02	104 22.1	212 20.7 S 22 24.6	164 18.2 S 23 02.5	335 06.9 N 21 23.0	28 48.8 N 22 05.7	119 13.2 S 8 33.5	162 30.9 S 24 53.5	57.1	Achernar	335 19.8	S 57 06.7	
03	119 24.6	227 20.4 S 22 24.9	179 17.6 S 23 01.9	350 09.3 N 21 23.1	43 51.6 N 22 05.7	134 15.6 S 8 33.4	176 58.1 S 24 45.3	57.2	Acruz	173 00.7	S 63 13.9	
04	134 27.1	242 20.2 S 22 25.2	194 17.0 S 23 01.3	5 11.7 N 21 23.2	58 54.4 N 22 05.6	149 18.0 S 8 33.4	191 25.4 S 24 36.9	57.2	Adhara	255 05.7	S 29 00.1	
05	149 29.5	257 19.9 S 22 25.5	209 16.4 S 23 00.6	20 14.1 N 21 23.3	73 57.3 N 22 05.6	164 20.4 S 8 33.3	205 52.7 S 24 28.4	57.2	Aldebaran	290 39.4	N 16 33.6	
06	164 32.0	272 19.6 S 22 25.8	224 15.8 S 23 00.0	35 16.4 N 21 23.4	89 00.1 N 22 05.6	179 22.8 S 8 33.3	220 20.1 S 24 19.8	57.2				
07	179 34.5	287 19.4 S 22 26.2	239 15.2 S 22 59.4	50 18.8 N 21 23.5	104 02.9 N 22 05.6	194 25.2 S 8 33.3	234 47.5 S 24 11.0	57.2	Alioth	166 13.4	N 55 49.3	
08	194 36.9	302 19.1 S 22 26.5	254 14.6 S 22 58.8	65 21.2 N 21 23.6	119 05.7 N 22 05.5	209 27.6 S 8 33.2	249 15.0 S 24 02.1	57.3	Alkaid	152 52.5	N 49 11.2	
09	209 39.4	317 18.8 S 22 26.8	269 13.9 S 22 58.2	80 23.6 N 21 23.7	134 08.6 N 22 05.5	224 30.0 S 8 33.2	263 42.6 S 23 53.0	57.3	Alnair	27 33.0	S 46 50.6	
10	224 41.8	332 18.6 S 22 27.1	284 13.3 S 22 57.6	95 25.9 N 21 23.8	149 11.4 N 22 05.5	239 32.3 S 8 33.1	278 10.2 S 23 43.8	57.3	Alnilam	275 37.6	S 1 11.1	
11	239 44.3	347 18.3 S 22 27.4	299 12.7 S 22 57.0	110 28.3 N 21 23.9	164 14.2 N 22 05.4	254 34.7 S 8 33.1	292 37.9 S 23 34.5	57.3	Alphard	217 47.8	S 8 45.8	
12	254 46.8	2 18.1 S 22 27.7	314 12.1 S 22 56.4	125 30.7 N 21 24.0	179 17.1 N 22 05.4	269 37.1 S 8 33.1	307 05.6 S 23 25.0	57.3				
13	269 49.2	17 17.8 S 22 28.0	329 11.5 S 22 55.8	140 33.1 N 21 24.1	194 19.9 N 22 05.4	284 39.5 S 8 33.0	321 33.4 S 23 15.4	57.4	Alphecca	126 04.2	N 26 37.9	
14	284 51.7	32 17.5 S 22 28.3	344 10.9 S 22 55.2	155 35.5 N 21 24.2	209 22.7 N 22 05.4	299 41.9 S 8 33.0	336 01.3 S 23 05.7	57.4	Alpheratz	357 34.7	N 29 13.9	
15	299 54.2	47 17.3 S 22 28.6	359 10.3 S 22 54.6	170 37.8 N 21 24.3	224 25.6 N 22 05.3	314 44.3 S 8 32.9	350 29.2 S 22 55.8	57.4	Altair	62 00.3	N 8 56.1	
16	314 56.6	62 17.0 S 22 28.9	14 09.7 S 22 54.0	185 40.2 N 21 24.4	239 28.4 N 22 05.3	329 46.7 S 8 32.9	4 57.2 S 22 45.8	57.4	Ankaa	353 07.0	S 42 10.4	
17	329 59.1	77 16.7 S 22 29.2	29 09.1 S 22 53.3	200 42.6 N 21 24.5	254 31.2 N 22 05.3	344 49.0 S 8 32.9	19 25.3 S 22 35.7	57.4	Antares	112 16.4	S 26 29.2	
18	345 01.6	92 16.5 S 22 29.5	44 08.4 S 22 52.7	215 45.0 N 21 24.6	269 34.0 N 22 05.2	359 51.4 S 8 32.8	33 53.4 S 22 25.4	57.5				
19	0 04.0	107 16.2 S 22 29.8	59 07.8 S 22 52.1	230 47.4 N 21 24.7	284 36.9 N 22 05.2	14 53.8 S 8 32.8	48 21.5 S 22 15.0	57.5	Arcturus	145 48.3	N 19 03.2	
20	15 06.5	122 16.0 S 22 30.1	74 07.2 S 22 51.5	245 49.8 N 21 24.8	299 39.7 N 22 05.2	29 56.2 S 8 32.7	62 49.8 S 22 04.5	57.5	Atria	107 11.3	S 69 04.3	
21	30 09.0	137 15.7 S 22 30.4	89 06.6 S 22 50.9	260 52.2 N 21 24.9	314 42.5 N 22 05.2	44 58.6 S 8 32.7	77 18.1 S 21 53.9	57.5	Avior	234 14.5	S 59 35.0	
22	45 11.4	152 15.4 S 22 30.7	104 06.0 S 22 50.2	275 54.6 N 21 25.0	329 45.4 N 22 05.1	60 01.0 S 8 32.7	91 46.4 S 21 43.1	57.5	Bellatrix	278 22.7	N 6 22.4	
23	60 13.9	167 15.2 S 22 31.0	119 05.4 S 22 49.6	290 57.0 N 21 25.1	344 48.2 N 22 05.1	75 03.3 S 8 32.6	106 14.9 S 21 32.2	57.6	Betelgeuse	270 51.9	N 7 24.8	
06 00	75 16.3	182 14.9 S 22 31.3	134 04.8 S 22 49.0	305 59.4 N 21 25.2	359 51.0 N 22 05.1	90 05.7 S 8 32.6	120 43.4 S 21 21.2	57.6	Canopus	263 52.0	S 52 42.3	
01	90 18.8	197 14.6 S 22 31.6	149 04.2 S 22 48.4	321 01.8 N 21 25.3	14 53.9 N 22 05.0	105 08.1 S 8 32.5	135 11.9 S 21 10.1	57.6	Capella	280 21.6	N 46 01.3	
02	105 21.3	212 14.4 S 22 31.9	164 03.6 S 22 47.8	336 04.2 N 21 25.4	29 56.7 N 22 05.0	120 10.5 S 8 32.5	149 40.5 S 20 58.8	57.6	Castor	245 57.0	N 31 50.0	
03	120 23.7	227 14.1 S 22 32.2	179 03.0 S 22 47.1	351 06.6 N 21 25.5	44 59.5 N 22 05.0	135 12.9 S 8 32.5	164 09.2 S 20 47.5	57.6	Deneb	49 26.1	N 45 22.4	
04	135 26.2	242 13.8 S 22 32.4	194 02.4 S 22 46.5	6 09.0 N 21 25.6	60 02.4 N 22 05.0	150 15.3 S 8 32.4	178 38.0 S 20 36.0	57.7	Denebola	182 25.2	N 44 26.0	
05	150 28.7	257 13.6 S 22 32.7	209 01.8 S 22 45.9	21 11.4 N 21 25.7	75 05.2 N 22 04.9	165 17.6 S 8 32.4	193 06.8 S 20 24.4	57.7				
06	165 31.1	272 13.3 S 22 33.0	224 01.2 S 22 45.2	36 13.8 N 21 25.8	90 08.0 N 22 04.9	180 20.0 S 8 32.3	207 35.6 S 20 12.7	57.7	Diphda	348 47.2	S 17 51.0	
07	180 33.6	287 13.0 S 22 33.3	239 00.6 S 22 44.6	51 16.2 N 21 25.9	105 10.8 N 22 04.9	195 22.4 S 8 32.3	222 04.6 S 20 00.8	57.7	Dubhe	193 41.3	N 61 36.7	
08	195 36.1	302 12.8 S 22 33.6	254 00.0 S 22 44.0	66 18.6 N 21 26.0	120 13.7 N 22 04.8	210 24.8 S 8 32.3	236 33.6 S 19 48.9	57.8	Elnath	278 01.7	N 28 37.7	
09	210 38.5	317 12.5 S 22 33.9	268 59.4 S 22 43.4	81 21.0 N 21 26.1	135 16.5 N 22 04.8	225 27.2 S 8 32.2	251 02.6 S 19 36.8	57.8	Etamin	90 42.7	N 51 29.2	
10	225 41.0	332 12.2 S 22 34.2	283 58.8 S 22 42.7	96 23.4 N 21 26.2	150 19.3 N 22 04.8	240 29.6 S 8 32.2	265 31.8 S 19 24.7	57.8	Enif	33 39.0	N 9 59.4	
11	240 43.4	347 12.0 S 22 34.5	298 58.2 S 22 42.1	111 25.9 N 21 26.3	165 22.2 N 22 04.8	255 31.9 S 8 32.1	280 00.9 S 19 12.4	57.8				
12	255 45.9	2 11.7 S 22 34.8	313 57.6 S 22 41.5	126 28.3 N 21 26.4	180 25.0 N 22 04.7	270 34.3 S 8 32.1	294 30.2 S 19 00.0	57.8	Fomalhaut	15 14.6	S 29 29.5	
13	270 48.4	17 11.4 S 22 35.0	328 57.0 S 22 40.8	141 30.7 N 21 26.5	195 27.8 N 22 04.7	285 36.7 S 8 32.0	308 59.5 S 18 47.5	57.9	Gacrux	171 52.2	S 57 14.9	
14	285 50.8	32 11.2 S 22 35.3	343 56.4 S 22 40.2	156 33.1 N 21 26.7	210 30.7 N 22 04.7	300 39.1 S 8 32.0	323 28.9 S 18 34.9	57.9	Gienah	175 43.9	S 17 40.6	
15	300 53.3	47 10.9 S 22 35.6	358 55.9 S 22 39.5	171 35.5 N 21 26.8	225 33.5 N 22 04.6	315 41.5 S 8 32.0	337 58.3 S 18 22.2	57.9	Hadar	148 36.8	S 60 29.4	
16	315 55.8	62 10.6 S 22 35.9	13 55.3 S 22 38.9	186 38.0 N 21 26.9	240 36.3 N 22 04.6	330 43.8 S 8 31.9	352 27.8 S 18 09.4	57.9	Hamal	327 51.0	N 23 34.9	
17	330 58.2	77 10.4 S 22 36.2	28 54.7 S 22 38.3	201 40.4 N 21 27.0	255 39.2 N 22 04.6	345 46.2 S 8 31.9	6 57.3 S 17 56.5	57.9				
18	346 00.7	92 10.1 S 22 36.5	43 54.1 S 22 37.6	216 42.8 N 21 27.1	270 42.0 N 22 04.5	0 48.6 S 8 31.8	21 26.9 S 17 43.5	58.0	Kaus aust.	83 33.0	S 34 22.4	
19	1 03.2	107 09.8 S 22 36.7	58 53.5 S 22 37.0	231 45.2 N 21 27.2	285 44.8 N 22 04.5	15 51.0 S 8 31.8	35 56.6 S 17 30.4	58.0	Kochab	137 20.9	N 74 03.0	
20	16 05.6	122 09.6 S 22 37.0	73 52.9 S 22 36.3	246 47.7 N 21 27.3	300 47.6 N 22 04.5	30 53.4 S 8 31.8	50 26.3 S 17 17.2	58.0	Markab	13 29.9	N 15 20.5	
21	31 08.1	137 09.3 S 22 37.3	88 52.3 S 22 35.7	261 50.1 N 21 27.4	315 50.5 N 22 04.5	45 55.7 S 8 31.7	64 56.1 S 17 03.9	58.0	Menkar	314 06.0	N 4 11.3	
22	46 10.6	152 09.0 S 22 37.6	103 51.7 S 22 35.0	276 52.5 N 21 27.5	330 53.3 N 22 04.4	60 58.1 S 8 31.7	79 25.9 S 16 50.5	58.0	Menkent	147 58.1	S 36 29.4	
23	61 13.0	167 08.7 S 22 37.9	118 51.1 S 22 34.4	291 54.9 N 21 27.6	345 56.1 N 22 04.4	76 00.5 S 8 31.6	93 55.8 S 16 37.0	58.1				
07 00	76 15.5	182 08.5 S 22 38.1	133 50.6 S 22 33.8	306 57.4 N 21 27.7	0 59.0 N 22 04.4	91 02.9 S 8 31.6	108 25.8 S 16 23.4	58.1	Miaplacidus	221 38.1	S 69 48.8	
01	91 17.9	197 08.2 S 22 38.4	148 50.0 S 22 33.1	321 59.8 N 21 27.9	16 01.8 N 22 04.3	106 05.3 S 8 31.5	122 55.8 S 16 09.7	58.1	Mirfak	308 27.9	N 49 57.1	
02	106 20.4	212 07.9 S 22 38.7	163 49.4 S 22 32.5	337 02.3 N 21 28.0	31 04.6 N 22 04.3	121 07.6 S 8 31.5	137 25.8 S 15 55.9	58.1	Mizar	158 46.4	N 54 47.6	
03	121 22.9	227 07.7 S 22 39.0	178 48.8 S 22 31.8	352 04.7 N 21 28.1	46 07.5 N 22 04.3	136 10.0 S 8 31.5	151 55.9 S 15 42.1	58.2	Nunki	75 48.2	S 26 16.0	
04	136 25.3	242 07.4 S 22 39.2	193 48.2 S 22 31.2	7 07.1 N 21 28.2	61 10.3 N 22 04.3	151 12.4 S 8 31.4	166 26.1 S 15 28.1	58.2	Peacock	53 06.2	S 56 39.5	
05	151 27.8	257 07.1 S 22 39.5	208 47.6 S 22 30.5	22 09.6 N 21 28.3	76 13.1 N 22 04.2	166 14.8 S 8 31.4	180 56.3 S 15 14.1	58.2	Polaris	313 37.1	N 89 22.2	
06	166 30.3	272 06.8 S 22 39.8	223 47.1 S 22 29.9	37 12.0 N 21 28.4	91 16.0 N 22 04.2	181 17.2 S 8 31.3	195 26.5 S 15 00.0	58.2	Pollux	243 17.3	N 27 57.9	
07	181 32.7	287 06.6 S 22 40.0	238 46.5 S 22 29.2	52 14.5 N 21 28.5	106 18.8 N 22 04.2	196 19.5 S 8 31.3	209 56.8 S 14 45.8	58.2	Procyon	244 50.8	N 5 09.7	
08	196 35.2	302 06.3 S 22 40.3	253 45.9 S 22 28.5	67 16.9 N 21 28.6	121 21.6 N 22 04.1	211 21.9 S 8 31.2	224 27.2 S 14 31.5	58.3	Rasalhague	95 59.0	N	

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	NOVEMBRE	25
08 00	77 14.6	182 01.9 S 22 44.5	133 36.7 S 22 17.9	307 56.2 N 21 30.5	2 06.9 N 22 03.7	92 00.0 S 8 30.6	96 38.8 S 10 32.4	58.6	NOME	360	- AR	Dec.
01	92 17.1	197 01.7 S 22 44.8	148 36.2 S 22 17.3	322 58.7 N 21 30.6	17 09.7 N 22 03.7	107 02.3 S 8 30.5	111 09.8 S 10 16.9	58.6	Acamar	315	11.4	S 40 12.3
02	107 19.5	212 01.4 S 22 45.1	163 35.6 S 22 16.6	338 01.1 N 21 30.8	32 12.6 N 22 03.6	122 04.7 S 8 30.5	125 40.9 S 10 01.3	58.6	Achernar	335	19.8	S 57 06.8
03	122 22.0	227 01.1 S 22 45.3	178 35.0 S 22 15.9	353 03.6 N 21 30.9	47 15.4 N 22 03.6	137 07.1 S 8 30.4	140 12.0 S 9 45.7	58.6	Acruz	173	00.7	S 63 13.9
04	137 24.5	242 00.8 S 22 45.6	193 34.5 S 22 15.2	8 06.1 N 21 31.0	62 18.2 N 22 03.6	152 09.5 S 8 30.4	154 43.1 S 9 30.0	58.7	Adhara	255	05.7	S 29 00.1
05	152 26.9	257 00.6 S 22 45.8	208 33.9 S 22 14.6	23 08.6 N 21 31.1	77 21.1 N 22 03.5	167 11.8 S 8 30.3	169 14.3 S 9 14.2	58.7	Aldebaran	290	39.4	N 16 33.6
06	167 29.4	272 00.3 S 22 46.1	223 33.3 S 22 13.9	38 11.0 N 21 31.2	92 23.9 N 22 03.5	182 14.2 S 8 30.3	183 45.5 S 8 58.4	58.7				
07	182 31.9	287 00.0 S 22 46.3	238 32.8 S 22 13.2	53 13.5 N 21 31.4	107 26.7 N 22 03.5	197 16.6 S 8 30.2	198 16.7 S 8 42.6	58.7	Alioth	166	13.4	N 55 49.3
08	197 34.3	301 59.7 S 22 46.6	253 32.2 S 22 12.5	68 16.0 N 21 31.5	122 29.6 N 22 03.4	212 19.0 S 8 30.2	212 47.9 S 8 26.6	58.7	Alkaid	152	52.5	N 49 11.2
09	212 36.8	316 59.5 S 22 46.8	268 31.6 S 22 11.8	83 18.5 N 21 31.6	137 32.4 N 22 03.4	227 21.3 S 8 30.2	227 19.1 S 8 10.7	58.8	Alnair	27	33.1	S 46 50.6
10	227 39.3	331 59.2 S 22 47.1	283 31.1 S 22 11.2	98 21.0 N 21 31.7	152 35.2 N 22 03.4	242 23.7 S 8 30.1	241 50.4 S 7 54.6	58.8	Alnilam	275	37.5	S 1 11.1
11	242 41.7	346 58.9 S 22 47.3	298 30.5 S 22 10.5	113 23.4 N 21 31.9	167 38.0 N 22 03.4	257 26.1 S 8 30.1	256 21.7 S 7 38.6	58.8	Alphard	217	47.8	S 8 45.9
12	257 44.2	1 58.6 S 22 47.6	313 30.0 S 22 09.8	128 25.9 N 21 32.0	182 40.9 N 22 03.4	272 28.5 S 8 30.0	270 53.0 S 7 22.5	58.8				
13	272 46.7	16 58.3 S 22 47.8	328 29.4 S 22 09.1	143 28.4 N 21 32.1	197 43.7 N 22 03.3	287 30.8 S 8 30.0	285 24.3 S 7 06.3	58.8	Alphecca	126	04.2	N 26 37.8
14	287 49.1	31 58.1 S 22 48.1	343 28.9 S 22 08.4	158 30.9 N 21 32.2	212 46.5 N 22 03.3	302 33.2 S 8 29.9	299 55.7 S 6 50.1	58.9	Alpheratz	357	34.7	N 29 13.9
15	302 51.6	46 57.8 S 22 48.3	358 28.3 S 22 07.7	173 33.4 N 21 32.4	227 49.4 N 22 03.2	317 35.6 S 8 29.9	314 27.1 S 6 33.8	58.9	Altair	62	00.3	N 8 56.1
16	317 54.0	61 57.5 S 22 48.6	13 27.7 S 22 07.1	188 35.9 N 21 32.5	242 52.2 N 22 03.2	332 37.9 S 8 29.8	328 58.4 S 6 17.5	58.9	Ankaa	353	07.0	S 42 10.4
17	332 56.5	76 57.2 S 22 48.8	28 27.2 S 22 06.4	203 38.4 N 21 32.6	257 55.0 N 22 03.2	347 40.3 S 8 29.8	343 29.8 S 6 01.2	58.9	Antares	112	16.4	S 26 29.2
18	347 59.0	91 57.0 S 22 49.0	43 26.6 S 22 05.7	218 40.9 N 21 32.7	272 57.9 N 22 03.2	2 42.7 S 8 29.8	358 01.2 S 5 44.8	58.9				
19	3 01.4	106 56.7 S 22 49.3	58 26.1 S 22 05.0	233 43.4 N 21 32.9	288 00.7 N 22 03.1	17 45.1 S 8 29.7	12 32.6 S 5 28.4	59.0	Arcturus	145	48.3	N 19 03.2
20	18 03.9	121 56.4 S 22 49.5	73 25.5 S 22 04.3	248 45.9 N 21 33.0	303 03.5 N 22 03.1	32 47.4 S 8 29.7	27 04.0 S 5 11.9	59.0	Atria	107	11.3	S 69 04.3
21	33 06.4	136 56.1 S 22 49.8	88 25.0 S 22 03.6	263 48.4 N 21 33.1	318 06.3 N 22 03.1	47 49.8 S 8 29.6	41 35.4 S 4 55.4	59.0	Avior	234	14.5	S 59 35.0
22	48 08.8	151 55.8 S 22 50.0	103 24.4 S 22 02.9	278 50.9 N 21 33.2	333 09.2 N 22 03.0	62 52.2 S 8 29.6	56 06.9 S 4 38.9	59.0	Bellatrix	278	22.7	N 6 22.4
23	63 11.3	166 55.6 S 22 50.3	118 23.9 S 22 02.2	293 53.4 N 21 33.4	348 12.0 N 22 03.0	77 54.6 S 8 29.5	70 38.3 S 4 22.3	59.0	Betelgeuse	270	51.9	N 7 24.8
09 00	78 13.8	181 55.3 S 22 50.5	133 23.3 S 22 01.5	308 55.9 N 21 33.5	3 14.8 N 22 03.0	92 56.9 S 8 29.5	85 09.7 S 4 05.7	59.1	Canopus	263	52.0	S 52 42.3
01	93 16.2	196 55.0 S 22 50.7	148 22.8 S 22 00.8	323 58.4 N 21 33.6	18 17.7 N 22 02.9	107 59.3 S 8 29.4	99 41.1 S 3 49.1	59.1	Capella	280	21.6	N 46 01.4
02	108 18.7	211 54.7 S 22 51.0	163 22.2 S 22 00.1	339 00.9 N 21 33.8	33 20.5 N 22 02.9	123 01.7 S 8 29.4	114 12.6 S 3 32.5	59.1	Castor	245	57.0	N 31 50.0
03	123 21.2	226 54.4 S 22 51.2	178 21.7 S 21 59.4	354 03.4 N 21 33.9	48 23.3 N 22 02.9	138 04.0 S 8 29.3	128 44.0 S 3 15.8	59.1	Deneb	49	26.1	N 45 22.4
04	138 23.6	241 54.2 S 22 51.4	193 21.1 S 21 58.7	9 05.9 N 21 34.0	63 26.2 N 22 02.9	153 06.4 S 8 29.3	143 15.4 S 2 59.1	59.1	Denebola	182	25.2	N 44 26.0
05	153 26.1	256 53.9 S 22 51.7	208 20.6 S 21 58.0	24 08.4 N 21 34.2	78 29.0 N 22 02.8	168 08.8 S 8 29.3	157 46.8 S 2 42.3	59.1				
06	168 28.5	271 53.6 S 22 51.9	223 20.0 S 21 57.3	39 10.9 N 21 34.3	93 31.8 N 22 02.8	183 11.2 S 8 29.2	172 18.3 S 2 25.6	59.2	Diphda	348	47.2	S 17 51.0
07	183 31.0	286 53.3 S 22 52.2	238 19.5 S 21 56.6	54 13.4 N 21 34.4	108 34.6 N 22 02.8	198 13.5 S 8 29.2	186 49.7 S 2 08.8	59.2	Dubhe	193	41.3	N 61 36.7
08	198 33.5	301 53.0 S 22 52.4	253 19.0 S 21 55.9	69 15.9 N 21 34.5	123 37.5 N 22 02.7	213 15.9 S 8 29.1	201 21.1 S 1 52.0	59.2	Elnath	278	01.7	N 28 37.7
09	213 35.9	316 52.8 S 22 52.6	268 18.4 S 21 55.2	84 18.5 N 21 34.7	138 40.3 N 22 02.7	228 18.3 S 8 29.1	215 52.5 S 1 35.2	59.2	Etamin	90	42.7	N 51 29.2
10	228 38.4	331 52.5 S 22 52.8	283 17.9 S 21 54.5	99 21.0 N 21 34.8	153 43.1 N 22 02.7	243 20.6 S 8 29.0	230 23.9 S 1 18.4	59.2	Enif	33	39.0	N 9 59.4
11	243 40.9	346 52.2 S 22 53.1	298 17.3 S 21 53.8	114 23.5 N 21 34.9	168 46.0 N 22 02.7	258 23.0 S 8 29.0	244 55.2 S 1 01.5	59.3				
12	258 43.3	1 51.9 S 22 53.3	313 16.8 S 21 53.1	129 26.0 N 21 35.1	183 48.8 N 22 02.6	273 25.4 S 8 28.9	259 26.6 S 0 44.6	59.3	Fomalhaut	15	14.6	S 29 29.6
13	273 45.8	16 51.6 S 22 53.5	328 16.3 S 21 52.4	144 28.5 N 21 35.2	198 51.6 N 22 02.6	288 27.7 S 8 28.9	273 57.9 S 0 27.7	59.3	Gacrux	171	52.2	S 57 14.9
14	288 48.3	31 51.4 S 22 53.8	343 15.7 S 21 51.7	159 31.1 N 21 35.3	213 54.5 N 22 02.6	303 30.1 S 8 28.8	288 29.2 S 0 10.8	59.3	Gienah	175	43.9	S 17 40.7
15	303 50.7	46 51.1 S 22 54.0	358 15.2 S 21 51.0	174 33.6 N 21 35.5	228 57.3 N 22 02.5	318 32.5 S 8 28.8	303 00.5 N 0 06.1	59.3	Hadar	148	36.8	S 60 29.4
16	318 53.2	61 50.8 S 22 54.2	13 14.6 S 21 50.3	189 36.1 N 21 35.6	244 00.1 N 22 02.5	333 34.9 S 8 28.7	317 31.8 N 0 23.0	59.3	Hamal	327	51.0	N 23 34.9
17	333 55.6	76 50.5 S 22 54.4	28 14.1 S 21 49.6	204 38.6 N 21 35.7	259 02.9 N 22 02.5	348 37.2 S 8 28.7	332 03.1 N 0 39.9	59.4				
18	348 58.1	91 50.2 S 22 54.7	43 13.6 S 21 48.8	219 41.2 N 21 35.9	274 05.8 N 22 02.5	3 39.6 S 8 28.6	346 34.3 N 0 56.8	59.4	Kaus aust.	83	33.0	S 34 22.4
19	4 00.6	106 49.9 S 22 54.9	58 13.0 S 21 48.1	234 43.7 N 21 36.0	289 08.6 N 22 02.4	18 42.0 S 8 28.6	1 05.5 S 1 13.8	59.4	Kochab	137	20.9	N 74 03.0
20	19 03.0	121 49.7 S 22 55.1	73 12.5 S 21 47.4	249 46.2 N 21 36.2	304 11.4 N 22 02.4	33 44.3 S 8 28.6	15 36.7 N 1 30.7	59.4	Markab	13	30.0	N 15 20.5
21	34 05.5	136 49.4 S 22 55.3	88 12.0 S 21 46.7	264 48.8 N 21 36.3	319 14.3 N 22 02.4	48 46.7 S 8 28.5	30 07.9 N 1 47.7	59.4	Menkar	314	06.0	N 4 11.3
22	49 08.0	151 49.1 S 22 55.6	103 11.4 S 21 46.0	279 51.3 N 21 36.4	334 17.1 N 22 02.3	63 49.1 S 8 28.5	44 39.0 N 2 04.6	59.4	Menkent	147	58.1	S 36 29.4
23	64 10.4	166 48.8 S 22 55.8	118 10.9 S 21 45.3	294 53.8 N 21 36.6	349 19.9 N 22 02.3	78 51.4 S 8 28.4	59 10.1 N 2 21.6	59.5				
10 00	79 12.9	181 48.5 S 22 56.0	133 10.4 S 21 44.6	309 56.4 N 21 36.7	4 22.8 N 22 02.3	93 53.8 S 8 28.4	73 41.2 N 2 38.5	59.5	Miaplacidus	221	38.1	S 69 48.8
01	94 15.4	196 48.2 S 22 56.2	148 09.8 S 21 43.8	324 58.9 N 21 36.8	19 25.6 N 22 02.2	108 56.2 S 8 28.3	88 12.3 N 2 55.4	59.5	Mirfak	308	27.9	N 49 57.1
02	109 17.8	211 48.0 S 22 56.4	163 09.3 S 21 43.1	340 01.5 N 21 37.0	34 28.4 N 22 02.2	123 58.5 S 8 28.3	102 43.3 N 3 12.4	59.5	Mizar	158	46.4	N 54 47.6
03	124 20.3	226 47.7 S 22 56.7	178 08.8 S 21 42.4	355 04.0 N 21 37.1	49 31.2 N 22 02.2	139 00.9 S 8 28.2	117 14.2 N 3 29.3	59.5	Nunki	75	48.2	S 26 16.0
04	139 22.8	241 47.4 S 22 56.9	193 08.3 S 21 41.7	10 06.5 N 21 37.3	64 34.1 N 22 02.2	154 03.3 S 8 28.2	131 45.2 N 3 46.2	59.5	Peacock	53	06.2	S 56 39.5
05	154 25.2	256 47.1 S 22 57.1	208 07.7 S 21 40.9	25 09.1 N 21 37.4	79 36.9 N 22 02.1	169 05.6 S 8 28.1	146 16.1 N 4 03.1	59.5	Polaris	313	37.4	N 89 22.2
06	169 27.7	271 46.8 S 22 57.3	223 07.2 S 21 40.2	40 11.6 N 21 37.5	94 39.7 N 22 02.1	184 08.0 S 8 28.1	160 46.9 N 4 20.0	59.6	Pollux	243	17.2	N 27 57.9
07	184 30.1	286 46.5 S 22 57.5	238 06.7 S 21 39.5	55 14.2 N 21 37.7	109 42.6 N 22 02.1	199 10.4 S 8 28.0	175 17.8 N 4 36.9	59.6	Procyon	244	50.7	N 5 09.7
08	199 32.6	301 46.3 S 22 57.7	253 06.2 S 21 38.8	70 16.7 N 21 37.8	124 45.4 N 22 02.0	214 12.7 S 8 28.0	189 48.5 N 4 53.8	59.6	Rasalhague	95	59.0	N 12 32.6
09	214 35.1	316 46.0 S 22 58.0	268 05.6 S 21 38.0	85 19.3 N 21 38.0	139 48.2 N 22 02.0	229 1						

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024	NOVEMBRE	28					
d h	'	'	'	'	'	'	'	'	'	'	'	'					
11 00	80 12.0	181 41.7	S 23 01.1	132 57.9	S 21 27.0	310 57.7	N 21 40.1	5 30.7	N 22 01.6	94 50.6	S 8 27.2	61 54.1	N 9 20.5	59.8	NOME	360 - AR	Dec.
01	95 14.5	196 41.4	S 23 01.3	147 57.4	S 21 26.3	326 00.3	N 21 40.3	20 33.5	N 22 01.5	109 53.0	S 8 27.2	76 23.9	N 9 36.8	59.8	Acamar	315 11.4	S 40 12.3
02	110 17.0	211 41.1	S 23 01.5	162 56.9	S 21 25.6	341 02.9	N 21 40.4	35 36.3	N 22 01.5	124 55.3	S 8 27.1	90 53.7	N 9 53.2	59.8	Achernar	335 19.8	S 57 06.8
03	125 19.4	226 40.8	S 23 01.7	177 56.3	S 21 24.8	356 05.5	N 21 40.5	50 39.1	N 22 01.5	139 57.7	S 8 27.1	105 23.4	N 10 09.5	59.8	AcruX	173 00.6	S 63 13.9
04	140 21.9	241 40.5	S 23 01.9	192 55.8	S 21 24.1	11 08.0	N 21 40.7	65 42.0	N 22 01.4	155 00.0	S 8 27.0	119 53.0	N 10 25.7	59.8	Adhara	255 05.7	S 29 00.2
05	155 24.4	256 40.2	S 23 02.1	207 55.3	S 21 23.3	26 10.6	N 21 40.8	80 44.8	N 22 01.4	170 02.4	S 8 27.0	134 22.6	N 10 41.9	59.9	Aldebaran	290 39.4	N 16 33.6
06	170 26.8	271 39.9	S 23 02.3	222 54.8	S 21 22.6	41 13.2	N 21 41.0	95 47.6	N 22 01.4	185 04.8	S 8 26.9	148 52.1	N 10 58.0	59.9			
07	185 29.3	286 39.7	S 23 02.5	237 54.3	S 21 21.8	56 15.8	N 21 41.1	110 50.5	N 22 01.4	200 07.1	S 8 26.9	163 21.5	N 11 14.1	59.9	Alioth	166 13.4	N 55 49.3
08	200 31.7	301 39.4	S 23 02.7	252 53.8	S 21 21.1	71 18.4	N 21 41.3	125 53.3	N 22 01.3	215 09.5	S 8 26.8	177 50.9	N 11 30.1	59.9	Alkaid	152 52.5	N 49 11.2
09	215 34.2	316 39.1	S 23 02.8	267 53.3	S 21 20.3	86 21.0	N 21 41.4	140 56.1	N 22 01.3	230 11.9	S 8 26.8	192 20.2	N 11 46.1	59.9	Alnair	27 33.1	S 46 50.6
10	230 36.7	331 38.8	S 23 03.0	282 52.8	S 21 19.6	101 23.6	N 21 41.6	155 58.9	N 22 01.3	245 14.2	S 8 26.7	206 49.4	N 12 02.0	59.9	Alnilam	275 37.5	S 1 11.1
11	245 39.1	346 38.5	S 23 03.2	297 52.3	S 21 18.8	116 26.1	N 21 41.7	171 01.8	N 22 01.2	260 16.6	S 8 26.7	221 18.5	N 12 17.9	59.9	Alphard	217 47.8	S 8 45.9
12	260 41.6	1 38.2	S 23 03.4	312 51.8	S 21 18.1	131 28.7	N 21 41.9	186 04.6	N 22 01.2	275 18.9	S 8 26.6	235 47.5	N 12 33.7	59.9			
13	275 44.1	16 37.9	S 23 03.6	327 51.3	S 21 17.3	146 31.3	N 21 42.0	201 07.4	N 22 01.2	290 21.3	S 8 26.6	250 16.5	N 12 49.4	59.9	Alphecca	126 04.2	N 26 37.8
14	290 46.5	31 37.6	S 23 03.8	342 50.8	S 21 16.6	161 33.9	N 21 42.2	216 10.3	N 22 01.2	305 23.7	S 8 26.5	264 45.4	N 13 05.1	59.9	Alpheratz	357 34.7	N 29 13.9
15	305 49.0	46 37.3	S 23 04.0	357 50.3	S 21 15.8	176 36.5	N 21 42.3	231 13.1	N 22 01.1	320 26.0	S 8 26.5	279 14.2	N 13 20.7	59.9	Altair	62 00.3	N 8 56.1
16	320 51.5	61 37.1	S 23 04.2	12 49.8	S 21 15.1	191 39.1	N 21 42.5	246 15.9	N 22 01.1	335 28.4	S 8 26.4	293 42.9	N 13 36.2	59.9	Ankaa	353 07.0	S 42 10.4
17	335 53.9	76 36.8	S 23 04.4	27 49.3	S 21 14.3	206 41.7	N 21 42.6	261 18.7	N 22 01.1	350 30.8	S 8 26.4	308 11.5	N 13 51.6	59.9	Antares	112 16.4	S 26 29.2
18	350 56.4	91 36.5	S 23 04.6	42 48.8	S 21 13.5	221 44.3	N 21 42.8	276 21.6	N 22 01.0	5 33.1	S 8 26.3	322 40.1	N 14 07.0	60.0			
19	5 58.9	106 36.2	S 23 04.7	57 48.3	S 21 12.8	236 46.9	N 21 42.9	291 24.4	N 22 01.0	20 35.5	S 8 26.3	337 08.6	N 14 22.3	60.0	Arcturus	145 48.3	N 19 03.1
20	21 01.3	121 35.9	S 23 04.9	72 47.8	S 21 12.0	251 49.5	N 21 43.1	306 27.2	N 22 01.0	35 37.8	S 8 26.2	351 36.9	N 14 37.6	60.0	Atria	107 11.3	S 69 04.3
21	36 03.8	136 35.6	S 23 05.1	87 47.3	S 21 11.3	266 52.1	N 21 43.3	321 30.1	N 22 00.9	50 40.2	S 8 26.2	6 05.2	N 14 52.7	60.0	Avior	234 14.5	S 59 35.0
22	51 06.2	151 35.3	S 23 05.3	102 46.8	S 21 10.5	281 54.7	N 21 43.4	336 32.9	N 22 00.9	65 42.6	S 8 26.1	20 33.4	N 15 07.8	60.0	Bellatrix	278 22.7	N 6 22.4
23	66 08.7	166 35.0	S 23 05.5	117 46.3	S 21 09.7	296 57.3	N 21 43.6	351 35.7	N 22 00.9	80 44.9	S 8 26.1	35 01.5	N 15 22.8	60.0	Betelgeuse	270 51.9	N 7 24.8
12 00	81 11.2	181 34.7	S 23 05.7	132 45.8	S 21 09.0	312 00.0	N 21 43.7	6 38.5	N 22 00.9	95 47.3	S 8 26.0	49 29.6	N 15 37.7	60.0	Canopus	263 52.0	S 52 42.3
01	96 13.6	196 34.4	S 23 05.8	147 45.3	S 21 08.2	327 02.6	N 21 43.9	21 41.4	N 22 00.8	110 49.6	S 8 26.0	63 57.5	N 15 52.5	60.0	Capella	280 21.6	N 46 01.4
02	111 16.1	211 34.1	S 23 06.0	162 44.9	S 21 07.5	342 05.2	N 21 44.0	36 44.2	N 22 00.8	125 52.0	S 8 25.9	78 25.3	N 16 07.2	60.0	Castor	245 56.9	N 31 50.0
03	126 18.6	226 33.9	S 23 06.2	177 44.4	S 21 06.7	357 07.8	N 21 44.2	51 47.0	N 22 00.8	140 54.4	S 8 25.9	92 53.1	N 16 21.8	60.0	Deneb	49 26.1	N 45 22.4
04	141 21.0	241 33.6	S 23 06.4	192 43.9	S 21 05.9	12 10.4	N 21 44.3	66 49.8	N 22 00.7	155 56.7	S 8 25.8	107 20.7	N 16 36.4	60.0	Denebola	182 25.2	N 14 26.0
05	156 23.5	256 33.3	S 23 06.6	207 43.4	S 21 05.2	27 13.0	N 21 44.5	81 52.7	N 22 00.7	170 59.1	S 8 25.8	121 48.3	N 16 50.8	60.0			
06	171 26.0	271 33.0	S 23 06.7	222 42.9	S 21 04.4	42 15.6	N 21 44.7	96 55.5	N 22 00.7	186 01.4	S 8 25.7	136 15.8	N 17 05.2	60.0	Diphda	348 47.2	S 17 51.0
07	186 28.4	286 32.7	S 23 06.9	237 42.4	S 21 03.6	57 18.3	N 21 44.8	111 58.3	N 22 00.6	201 03.8	S 8 25.7	150 43.1	N 17 19.4	60.0	Dubhe	193 41.2	N 61 36.7
08	201 30.9	301 32.4	S 23 07.1	252 41.9	S 21 02.8	72 20.9	N 21 45.0	127 01.2	N 22 00.6	216 06.2	S 8 25.6	165 10.4	N 17 33.6	60.0	Elnath	278 01.6	N 28 37.7
09	216 33.4	316 32.1	S 23 07.3	267 41.4	S 21 02.1	87 23.5	N 21 45.1	142 04.0	N 22 00.6	231 08.5	S 8 25.6	179 37.6	N 17 47.6	60.0	Etamin	90 42.7	N 51 29.2
10	231 35.8	331 31.8	S 23 07.4	282 41.0	S 21 01.3	102 26.1	N 21 45.3	157 06.8	N 22 00.6	246 10.9	S 8 25.5	194 04.6	N 18 01.6	60.0	Enif	33 39.0	N 9 59.4
11	246 38.3	346 31.5	S 23 07.6	297 40.5	S 21 00.5	117 28.8	N 21 45.4	172 09.6	N 22 00.5	261 13.2	S 8 25.5	208 31.6	N 18 15.4	60.0			
12	261 40.7	1 31.2	S 23 07.8	312 40.0	S 20 59.8	132 31.4	N 21 45.6	187 12.5	N 22 00.5	276 15.6	S 8 25.4	222 58.5	N 18 29.1	60.0	Fomalhaut	15 14.6	S 29 29.6
13	276 43.2	16 30.9	S 23 08.0	327 39.5	S 20 59.0	147 34.0	N 21 45.8	202 15.3	N 22 00.5	291 18.0	S 8 25.4	237 25.3	N 18 42.7	60.0	Gacrux	171 52.1	S 57 14.9
14	291 45.7	31 30.6	S 23 08.1	342 39.0	S 20 58.2	162 36.6	N 21 45.9	217 18.1	N 22 00.4	306 20.3	S 8 25.3	251 52.0	N 18 56.3	60.0	Gienah	175 43.9	S 17 40.7
15	306 48.1	46 30.3	S 23 08.3	357 38.6	S 20 57.4	177 39.3	N 21 46.1	232 20.9	N 22 00.4	321 22.7	S 8 25.3	266 18.6	N 19 09.7	60.0	Hadar	148 36.7	S 60 29.4
16	321 50.6	61 30.1	S 23 08.5	12 38.1	S 20 56.7	192 41.9	N 21 46.2	247 23.8	N 22 00.4	336 25.0	S 8 25.2	280 45.1	N 19 22.9	60.0	Hamal	327 51.0	N 23 34.9
17	336 53.1	76 29.8	S 23 08.6	27 37.6	S 20 55.9	207 44.5	N 21 46.4	262 26.6	N 22 00.3	351 27.4	S 8 25.2	295 11.5	N 19 36.1	60.0			
18	351 55.5	91 29.5	S 23 08.8	42 37.1	S 20 55.1	222 47.2	N 21 46.6	277 29.4	N 22 00.3	6 29.7	S 8 25.1	309 37.7	N 19 49.1	60.0	Kaus aust.	83 33.0	S 34 22.4
19	6 58.0	106 29.2	S 23 09.0	57 36.6	S 20 54.3	237 49.8	N 21 46.7	292 32.2	N 22 00.3	21 32.1	S 8 25.1	324 03.9	N 20 02.0	60.0	Kochab	137 20.8	N 74 03.0
20	22 00.5	121 28.9	S 23 09.2	72 36.2	S 20 53.5	252 52.5	N 21 46.9	307 35.1	N 22 00.3	36 34.5	S 8 25.0	338 30.0	N 20 14.8	60.0	Markab	13 30.0	N 15 20.5
21	37 02.9	136 28.6	S 23 09.3	87 35.7	S 20 52.8	267 55.1	N 21 47.1	322 37.9	N 22 00.2	51 36.8	S 8 25.0	352 56.0	N 20 27.5	60.0	Menkar	314 06.0	N 4 11.3
22	52 05.4	151 28.3	S 23 09.5	102 35.2	S 20 52.0	282 57.7	N 21 47.2	337 40.7	N 22 00.2	66 39.2	S 8 24.9	7 21.9	N 20 40.0	60.0	Menkent	147 58.1	S 36 29.4
23	67 07.8	166 28.0	S 23 09.6	117 34.8	S 20 51.2	298 00.4	N 21 47.4	352 43.6	N 22 00.2	81 41.5	S 8 24.9	21 47.7	N 20 52.5	60.0			
13 00	82 10.3	181 27.7	S 23 09.8	132 34.3	S 20 50.4	313 03.0	N 21 47.5	7 46.4	N 22 00.1	96 43.9	S 8 24.8	36 13.4	N 21 04.7	60.0	Miaplacidus	221 38.0	S 69 48.8
01	97 12.8	196 27.4	S 23 10.0	147 33.8	S 20 49.6	328 05.7	N 21 47.7	22 49.2	N 22 00.1	111 46.2	S 8 24.8	50 39.0	N 21 16.9	60.0	Mirfak	308 27.9	N 49 57.1
02	112 15.2	211 27.1	S 23 10.1	162 33.3	S 20 48.8	343 08.3	N 21 47.9	37 52.0	N 22 00.1	126 48.6	S 8 24.7	65 04.5	N 21 28.9	60.0	Mizar	158 46.4	N 54 47.5

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024 DICEMBRE	01
14 00	83 09.5	181 20.6 S 23 13.5	132 23.2 S 20 31.3	314 07.0 N 21 51.6	8 54.2 N 21 59.4	97 40.4 S 8 23.6	22 01.8 N 25 15.3	59.8	NOME	360 - AR	Dec.
01	98 11.9	196 20.3 S 23 13.6	147 22.7 S 20 30.5	329 09.7 N 21 51.7	23 57.0 N 21 59.4	112 42.8 S 8 23.5	36 25.2 N 25 23.7	59.8	Acamar	315 11.4	S 40 12.3
02	113 14.4	211 20.0 S 23 13.8	162 22.3 S 20 29.7	344 12.4 N 21 51.9	38 59.8 N 21 59.4	127 45.1 S 8 23.4	50 48.6 N 25 31.9	59.8	Achernar	335 19.8	S 57 06.8
03	128 16.8	226 19.7 S 23 13.9	177 21.8 S 20 28.9	359 15.0 N 21 52.1	54 02.7 N 21 59.3	142 47.5 S 8 23.4	65 11.9 N 25 40.0	59.8	AcruX	173 00.6	S 63 13.9
04	143 19.3	241 19.4 S 23 14.1	192 21.4 S 20 28.1	14 17.7 N 21 52.3	69 05.5 N 21 59.3	157 49.8 S 8 23.3	79 35.1 N 25 47.8	59.7	Adhara	255 05.6	S 29 00.2
05	158 21.8	256 19.1 S 23 14.2	207 20.9 S 20 27.3	29 20.4 N 21 52.4	84 08.3 N 21 59.3	172 52.2 S 8 23.3	93 58.2 N 25 55.5	59.7	Aldebaran	290 39.4	N 16 33.6
06	173 24.2	271 18.8 S 23 14.3	222 20.5 S 20 26.5	44 23.1 N 21 52.6	99 11.1 N 21 59.2	187 54.5 S 8 23.2	108 21.3 N 26 03.1	59.7			
07	188 26.7	286 18.5 S 23 14.5	237 20.1 S 20 25.7	59 25.8 N 21 52.8	114 13.9 N 21 59.2	202 56.9 S 8 23.2	122 44.3 N 26 10.4	59.7	Alioth	166 13.4	N 55 49.3
08	203 29.2	301 18.2 S 23 14.6	252 19.6 S 20 24.8	74 28.5 N 21 53.0	129 16.8 N 21 59.2	217 59.2 S 8 23.1	137 07.3 N 26 17.5	59.7	Alkaid	152 52.5	N 49 11.2
09	218 31.6	316 17.9 S 23 14.8	267 19.2 S 20 24.0	89 31.2 N 21 53.1	144 19.6 N 21 59.2	233 01.6 S 8 23.1	151 30.1 N 26 24.5	59.7	Alnair	27 33.1	S 46 50.6
10	233 34.1	331 17.6 S 23 14.9	282 18.7 S 20 23.2	104 33.9 N 21 53.3	159 22.4 N 21 59.1	248 03.9 S 8 23.0	165 53.0 N 26 31.3	59.7	Alnilam	275 37.5	S 1 11.1
11	248 36.6	346 17.3 S 23 15.0	297 18.3 S 20 22.4	119 36.6 N 21 53.5	174 25.2 N 21 59.1	263 06.3 S 8 23.0	180 15.7 N 26 37.9	59.6	Alphard	217 47.8	S 8 45.9
12	263 39.0	1 17.0 S 23 15.2	312 17.8 S 20 21.6	134 39.3 N 21 53.7	189 28.1 N 21 59.1	278 08.6 S 8 22.9	194 38.5 N 26 44.3	59.6			
13	278 41.5	16 16.7 S 23 15.3	327 17.4 S 20 20.8	149 42.0 N 21 53.8	204 30.9 N 21 59.0	293 11.0 S 8 22.9	209 01.1 N 26 50.5	59.6	Alphecca	126 04.2	N 26 37.8
14	293 44.0	31 16.4 S 23 15.4	342 17.0 S 20 19.9	164 44.7 N 21 54.0	219 33.7 N 21 59.0	308 13.3 S 8 22.8	223 23.7 N 26 56.6	59.6	Alpheratz	357 34.8	N 29 13.9
15	308 46.4	46 16.1 S 23 15.6	357 16.5 S 20 19.1	179 47.4 N 21 54.2	234 36.5 N 21 59.0	323 15.7 S 8 22.7	237 46.3 N 27 02.4	59.6	Altair	62 00.3	N 8 56.1
16	323 48.9	61 15.8 S 23 15.7	12 16.1 S 20 18.3	194 50.1 N 21 54.4	249 39.4 N 21 58.9	338 18.0 S 8 22.7	252 08.8 N 27 08.0	59.6	Ankaa	353 07.1	S 42 10.4
17	338 51.3	76 15.5 S 23 15.8	27 15.6 S 20 17.5	209 52.8 N 21 54.5	264 42.2 N 21 58.9	353 20.4 S 8 22.6	266 31.3 N 27 13.5	59.5	Antares	112 16.4	S 26 29.2
18	353 53.8	91 15.2 S 23 16.0	42 15.2 S 20 16.7	224 55.5 N 21 54.7	279 45.0 N 21 58.9	8 22.7 S 8 22.6	280 53.7 N 27 18.8	59.5			
19	8 56.3	106 14.9 S 23 16.1	57 14.8 S 20 15.8	239 58.2 N 21 54.9	294 47.8 N 21 58.9	23 25.1 S 8 22.5	295 16.1 N 27 23.8	59.5	Arcturus	145 48.3	N 19 03.1
20	23 58.7	121 14.6 S 23 16.2	72 14.3 S 20 15.0	255 00.9 N 21 55.1	309 50.6 N 21 58.8	38 27.4 S 8 22.5	309 38.5 N 27 28.7	59.5	Atria	107 11.3	S 69 04.3
21	39 01.2	136 14.3 S 23 16.3	87 13.9 S 20 14.2	270 03.7 N 21 55.3	324 53.5 N 21 58.8	53 29.8 S 8 22.4	324 00.8 N 27 33.4	59.5	Avior	234 14.4	S 59 35.0
22	54 03.7	151 14.0 S 23 16.5	102 13.5 S 20 13.4	285 06.4 N 21 55.4	339 56.3 N 21 58.8	68 32.1 S 8 22.4	338 23.1 N 27 37.9	59.4	Bellatrix	278 22.7	N 6 22.4
23	69 06.1	166 13.7 S 23 16.6	117 13.0 S 20 12.6	300 09.1 N 21 55.6	354 59.1 N 21 58.7	83 34.5 S 8 22.3	352 45.4 N 27 42.2	59.4	Betelgeuse	270 51.9	N 7 24.8
15 00	84 08.6	181 13.4 S 23 16.7	132 12.6 S 20 11.7	315 11.8 N 21 55.8	10 01.9 N 21 58.7	98 36.8 S 8 22.3	7 07.7 N 27 46.3	59.4	Canopus	263 51.9	S 52 42.3
01	99 11.1	196 13.1 S 23 16.8	147 12.2 S 20 10.9	330 14.5 N 21 56.0	25 04.8 N 21 58.7	113 39.2 S 8 22.2	21 29.9 N 27 50.2	59.4	Capella	280 21.6	N 46 01.4
02	114 13.5	211 12.8 S 23 17.0	162 11.7 S 20 10.1	345 17.3 N 21 56.2	40 07.6 N 21 58.7	128 41.5 S 8 22.1	35 52.1 N 27 53.8	59.4	Castor	245 56.9	N 31 50.0
03	129 16.0	226 12.5 S 23 17.1	177 11.3 S 20 09.2	0 20.0 N 21 56.3	55 10.4 N 21 58.6	143 43.9 S 8 22.1	50 14.3 N 27 57.3	59.3	Deneb	49 26.1	N 45 22.3
04	144 18.5	241 12.2 S 23 17.2	192 10.9 S 20 08.4	15 22.7 N 21 56.5	70 13.2 N 21 58.6	158 46.2 S 8 22.0	64 36.5 N 28 00.6	59.3	Denebola	182 25.2	N 44 25.9
05	159 20.9	256 11.9 S 23 17.3	207 10.5 S 20 07.6	30 25.4 N 21 56.7	85 16.0 N 21 58.6	173 48.6 S 8 22.0	78 58.7 N 28 03.7	59.3			
06	174 23.4	271 11.6 S 23 17.4	222 10.0 S 20 06.8	45 28.2 N 21 56.9	100 18.9 N 21 58.5	188 50.9 S 8 21.9	93 20.8 N 28 06.6	59.3	Diphda	348 47.2	S 17 51.0
07	189 25.8	286 11.3 S 23 17.6	237 09.6 S 20 05.9	60 30.9 N 21 57.1	115 21.7 N 21 58.5	203 53.3 S 8 21.9	107 43.0 N 28 09.4	59.2	Dubhe	193 41.2	N 61 36.7
08	204 28.3	301 11.0 S 23 17.7	252 09.2 S 20 05.1	75 33.6 N 21 57.3	130 24.5 N 21 58.5	218 55.6 S 8 21.8	122 05.2 N 28 11.9	59.2	Elnath	278 01.6	N 28 37.7
09	219 30.8	316 10.7 S 23 17.8	267 08.7 S 20 04.3	90 36.3 N 21 57.4	145 27.3 N 21 58.4	233 58.0 S 8 21.8	136 27.3 N 28 14.2	59.2	Etamin	90 42.7	N 51 29.2
10	234 33.2	331 10.4 S 23 17.9	282 08.3 S 20 03.4	105 39.1 N 21 57.6	160 30.2 N 21 58.4	249 00.3 S 8 21.7	150 49.9 N 28 16.3	59.2	Enif	33 39.0	N 9 59.4
11	249 35.7	346 10.1 S 23 18.0	297 07.9 S 20 02.6	120 41.8 N 21 57.8	175 33.0 N 21 58.4	264 02.7 S 8 21.7	165 11.6 N 28 18.2	59.2			
12	264 38.2	1 09.8 S 23 18.2	312 07.5 S 20 01.7	135 44.6 N 21 58.0	190 35.8 N 21 58.4	279 05.0 S 8 21.6	179 33.8 N 28 19.9	59.1	Fomalhaut	15 14.6	S 29 29.6
13	279 40.6	16 09.5 S 23 18.3	327 07.1 S 20 00.9	150 47.3 N 21 58.2	205 38.6 N 21 58.3	294 07.4 S 8 21.5	193 56.0 N 28 21.4	59.1	Gacrux	171 52.1	S 57 14.9
14	294 43.1	31 09.2 S 23 18.4	342 06.6 S 20 00.1	165 50.0 N 21 58.4	220 41.4 N 21 58.3	309 09.7 S 8 21.5	208 18.2 N 28 22.7	59.1	Gienah	175 43.9	S 17 40.7
15	309 45.6	46 08.9 S 23 18.5	357 06.2 S 19 59.2	180 52.8 N 21 58.5	235 44.3 N 21 58.3	324 12.0 S 8 21.4	222 40.5 N 28 23.8	59.1	Hadar	148 36.7	S 60 29.4
16	324 48.0	61 08.6 S 23 18.6	12 05.8 S 19 58.4	195 55.5 N 21 58.7	250 47.1 N 21 58.2	339 14.4 S 8 21.4	237 02.7 N 28 24.7	59.0	Hamal	327 51.0	N 23 34.9
17	339 50.5	76 08.3 S 23 18.7	27 05.4 S 19 57.6	210 58.3 N 21 58.9	265 49.9 N 21 58.2	354 16.7 S 8 21.3	251 25.0 N 28 25.4	59.0			
18	354 53.0	91 08.0 S 23 18.8	42 05.0 S 19 56.7	226 01.0 N 21 59.1	280 52.7 N 21 58.2	9 19.1 S 8 21.3	265 47.3 N 28 26.0	59.0	Kaus aust.	83 33.0	S 34 22.4
19	9 55.4	106 07.7 S 23 18.9	57 04.6 S 19 55.9	241 03.8 N 21 59.3	295 55.5 N 21 58.1	24 21.4 S 8 21.2	280 09.6 N 28 26.3	59.0	Kochab	137 20.8	N 74 03.0
20	24 57.9	121 07.4 S 23 19.0	72 04.1 S 19 55.0	256 06.5 N 21 59.5	310 58.4 N 21 58.1	39 23.8 S 8 21.2	294 32.0 N 28 26.4	58.9	Markab	13 30.0	N 15 20.5
21	40 00.3	136 07.1 S 23 19.2	87 03.7 S 19 54.2	271 09.3 N 21 59.7	326 01.2 N 21 58.1	54 26.1 S 8 21.1	308 54.4 N 28 26.3	58.9	Menkar	314 06.0	N 4 11.3
22	55 02.8	151 06.8 S 23 19.3	102 03.3 S 19 53.3	286 12.0 N 21 59.8	341 04.0 N 21 58.1	69 28.5 S 8 21.0	323 16.8 N 28 26.1	58.9	Menkent	147 58.1	S 36 29.4
23	70 05.3	166 06.5 S 23 19.4	117 02.9 S 19 52.5	301 14.8 N 22 00.0	356 06.8 N 21 58.0	84 30.8 S 8 21.0	337 39.3 N 28 25.6	58.8			
16 00	85 07.7	181 06.2 S 23 19.5	132 02.5 S 19 51.7	316 17.5 N 22 00.2	11 09.6 N 21 58.0	99 33.2 S 8 20.9	352 01.9 N 28 25.0	58.8	Miaplacidus	221 38.0	S 69 48.8
01	100 10.2	196 05.9 S 23 19.6	147 02.1 S 19 50.8	331 20.3 N 22 00.4	26 12.5 N 21 58.0	114 35.5 S 8 20.9	6 24.4 N 28 24.1	58.8	Mirfak	308 27.9	N 49 57.1
02	115 12.7	211 05.6 S 23 19.7	162 01.7 S 19 50.0	346 23.0 N 22 00.6	41 15.3 N 21 57.9	129 37.8 S 8 20.8	20 47.1 N 28 23.1	58.8	Mizar	158 46.3	S 54 47.5
03	130 15.1	226 05.3 S 23 19.8	177 01.3 S 19 49.1	1 25.8 N 22 00.8	56 18.1 N 21 57.9	144 40.2 S 8 20.8	35 09.7 N 28 21.8	58.7	Nunki	75 48.2	S 26 16.0
04	145 17.6	241 05.0 S 23 19.9	192 00.9 S 19 48.3	16 28.6 N 22 01.0	71 20.9 N 21 57.9	159 42.5 S 8 20.7	49 32.5 N 28 20.4	58.7	Peacock	53 06.2	S 56 39.5
05	160 20.1	256 04.7 S 23 20.0	207 00.4 S 19 47.4	31 31.3 N 22 01.2	86 23.7 N 21 57.8	174 44.9 S 8 20.6	63 55.3 N 28 18.8	58.7	Polaris	313 37.8	N 89 22.3
06	175 22.5	271 04.4 S 23 20.1	222 00.0 S 19 46.6	46 34.1 N 22 01.4	101 26.6 N 21 57.8	189 47.2 S 8 20.6	78 18.1 N 28 17.0	58.6	Pollux	243 17.2	N 27 57.9
07	190 25.0	286 04.1 S 23 20.2	236 59.6 S 19 45.7	61 36.8 N 22 01.6	116 29.4 N 21 57.8	204 49.6 S 8 20.5	92 41.1 N 28 15.0	58.6	Procyon	244 50.7	N 5 09.7
08	205 27.5	301 03.8 S 23 20.3	251 59.2 S 19 44.9	76 39.6 N 22 01.7	131 32.2 N 21 57.8	219 51.9 S 8 20.5	107 04.1 N 28 12.8	58.6	Rasalhague	95 59.0	N 12 32.5
09	220 29.9	316 03.5 S 23 20.4	266 58.8 S 19 44.0	91 42.4 N 22 01.9	146 35.0 N 21 57.7	234 54.3 S 8 20.4	121 27.1 N 28 10.4	58.6	Regulus	207 34.5	N 11 50.7
10	235 32.4	331 03.2 S 23 20.5	281 58.4 S 19 43.1	106 45.2 N 22 02.1	161 37.8 N 21 57.7	249 56.6 S 8 20.4	135 50.2 N				

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024 DICEMBRE	04
d h	'	'	'	'	'	'	'	'	'	'	'
17 00	86 06.9	180 58.9 S 23 21.8	131 52.9 S 19 31.1	317 24.1 N 22 04.8	12 17.3 N 21 57.3	100 29.4 S 8 19.6	337 22.8 N 27 13.3	58.1	NOME	360 - AR	Dec.
01	101 09.3	195 58.6 S 23 21.9	146 52.5 S 19 30.2	332 26.9 N 22 05.0	27 20.1 N 21 57.3	115 31.7 S 8 19.5	351 47.2 N 27 08.1	58.1	Acamar	315 11.4	S 40 12.3
02	116 11.8	210 58.3 S 23 21.9	161 52.1 S 19 29.4	347 29.7 N 22 05.2	42 22.9 N 21 57.2	130 34.1 S 8 19.4	6 11.8 N 27 02.7	58.0	Achernar	335 19.8	S 57 06.8
03	131 14.3	225 58.0 S 23 22.0	176 51.7 S 19 28.5	2 32.5 N 22 05.4	57 25.7 N 21 57.2	145 36.4 S 8 19.4	20 36.4 N 26 57.2	58.0	Acruz	173 00.6	S 63 13.9
04	146 16.7	240 57.7 S 23 22.1	191 51.3 S 19 27.6	17 35.3 S 22 05.6	72 28.6 N 21 57.2	160 38.8 S 8 19.3	35 01.2 N 26 51.5	58.0	Adhara	255 05.6	S 29 00.2
05	161 19.2	255 57.4 S 23 22.2	206 50.9 S 19 26.8	32 38.1 N 22 05.8	87 31.4 N 21 57.1	175 41.1 S 8 19.3	49 26.1 N 26 45.7	57.9	Aldebaran	290 39.4	N 16 33.6
06	176 21.7	270 57.1 S 23 22.3	221 50.6 S 19 25.9	47 40.9 N 22 06.0	102 34.2 N 21 57.1	190 43.5 S 8 19.2	63 51.1 N 26 39.7	57.9			
07	191 24.1	285 56.8 S 23 22.3	236 50.2 S 19 25.0	62 43.7 N 22 06.2	117 37.0 N 21 57.1	205 45.8 S 8 19.2	78 16.2 N 26 33.6	57.9	Alioth	166 13.3	N 55 49.3
08	206 26.6	300 56.5 S 23 22.4	251 49.8 S 19 24.2	77 46.5 N 22 06.4	132 39.8 N 21 57.0	220 48.1 S 8 19.1	92 41.4 N 26 27.2	57.8	Alkaid	152 52.4	N 49 11.2
09	221 29.1	315 56.2 S 23 22.5	266 49.4 S 19 23.3	92 49.3 N 22 06.6	147 42.7 N 21 57.0	235 50.5 S 8 19.0	107 06.7 N 26 20.8	57.8	Alnair	27 33.1	S 46 50.6
10	236 31.5	330 55.9 S 23 22.6	281 49.0 S 19 22.4	107 52.1 N 22 06.8	162 45.5 N 21 57.0	250 52.8 S 8 19.0	121 32.2 N 26 14.2	57.8	Alnilam	275 37.5	S 1 11.1
11	251 34.0	345 55.6 S 23 22.7	296 48.6 S 19 21.5	122 54.9 N 22 07.0	177 48.3 N 21 57.0	265 55.2 S 8 18.9	135 57.7 N 26 07.4	57.7	Alphard	217 47.7	S 8 45.9
12	266 36.5	0 55.3 S 23 22.7	311 48.3 S 19 20.7	137 57.7 N 22 07.2	192 51.1 N 21 56.9	280 57.5 S 8 18.9	150 23.4 N 26 00.5	57.7			
13	281 38.9	15 54.9 S 23 22.8	326 47.9 S 19 19.8	153 00.5 N 22 07.4	207 53.9 N 21 56.9	295 59.8 S 8 18.8	164 49.2 N 25 53.4	57.7	Alphecca	126 04.2	N 26 37.8
14	296 41.4	30 54.6 S 23 22.9	341 47.5 S 19 18.9	168 03.4 N 22 07.6	222 56.7 N 21 56.9	311 02.2 S 8 18.7	179 15.1 N 25 46.2	57.6	Alpheratz	357 34.8	N 29 13.9
15	311 43.8	45 54.3 S 23 23.0	356 47.1 S 19 18.0	183 06.2 N 22 07.8	237 59.5 N 21 56.8	326 04.5 S 8 18.7	193 41.1 N 25 38.9	57.6	Altair	62 00.3	N 8 56.1
16	326 46.3	60 54.0 S 23 23.0	11 46.7 S 19 17.2	198 09.0 N 22 08.0	253 02.4 N 21 56.8	341 06.9 S 8 18.6	208 07.3 N 25 31.4	57.6	Ankaa	353 07.1	S 42 10.4
17	341 48.8	75 53.7 S 23 23.1	26 46.4 S 19 16.3	213 11.8 N 22 08.2	268 05.2 N 21 56.8	356 09.2 S 8 18.6	222 33.5 N 25 23.8	57.5	Antares	112 16.3	S 26 29.2
18	356 51.2	90 53.4 S 23 23.2	41 46.0 S 19 15.4	228 14.6 N 22 08.4	283 00.8 N 21 56.8	11 11.5 S 8 18.5	236 59.9 N 25 16.0	57.5			
19	11 53.7	105 53.1 S 23 23.3	56 45.6 S 19 14.5	243 17.4 N 22 08.6	298 10.8 N 21 56.7	26 13.9 S 8 18.5	251 26.4 N 25 08.1	57.5	Arcturus	145 48.3	N 19 03.1
20	26 56.2	120 52.8 S 23 23.3	71 45.2 S 19 13.6	258 20.3 N 22 08.8	313 13.6 N 21 56.7	41 16.2 S 8 18.4	265 53.1 N 25 00.1	57.4	Atria	107 11.2	S 69 04.3
21	41 58.6	135 52.5 S 23 23.4	86 44.9 S 19 12.8	273 23.1 N 22 09.0	328 16.4 N 21 56.7	56 18.5 S 8 18.3	280 19.8 N 24 51.9	57.4	Avior	234 14.4	S 59 35.1
22	57 01.1	150 52.2 S 23 23.5	101 44.5 S 19 11.9	288 25.9 N 22 09.3	343 19.3 N 21 56.6	71 20.9 S 8 18.3	294 46.7 N 24 43.6	57.4	Bellatrix	278 22.7	N 6 22.4
23	72 03.6	165 51.9 S 23 23.5	116 44.1 S 19 11.0	303 28.7 N 22 09.5	358 22.1 N 21 56.6	86 23.2 S 8 18.2	309 13.7 N 24 35.2	57.3	Betelgeuse	270 51.9	N 7 24.7
18 00	87 06.0	180 51.6 S 23 23.6	131 43.8 S 19 10.1	318 31.6 N 22 09.7	13 24.9 N 21 56.6	101 25.6 S 8 18.2	323 40.8 N 24 26.6	57.3	Canopus	263 51.9	S 52 42.3
01	102 08.5	195 51.3 S 23 23.7	146 43.4 S 19 09.2	333 34.4 N 22 09.9	28 27.7 N 21 56.5	116 27.9 S 8 18.1	338 08.1 N 24 17.9	57.3	Capella	280 21.6	N 46 01.4
02	117 11.0	210 51.0 S 23 23.7	161 43.0 S 19 08.3	348 37.2 N 22 10.1	43 30.5 N 21 56.5	131 30.2 S 8 18.0	352 35.4 N 24 09.1	57.2	Castor	245 56.9	N 31 50.0
03	132 13.4	225 50.7 S 23 23.8	176 42.7 S 19 07.4	3 40.1 N 22 10.3	58 33.3 N 21 56.5	146 32.6 S 8 18.0	7 02.9 N 24 00.2	57.2	Deneb	49 26.1	N 45 22.3
04	147 15.9	240 50.4 S 23 23.9	191 42.3 S 19 06.6	18 42.9 N 22 10.5	73 36.1 N 21 56.5	161 34.9 S 8 17.9	21 30.6 N 23 51.1	57.2	Denebola	182 25.1	N 44 25.9
05	162 18.3	255 50.0 S 23 23.9	206 41.9 S 19 05.7	33 45.7 N 22 10.7	88 39.0 N 21 56.4	176 37.3 S 8 17.9	35 58.3 N 23 42.0	57.1			
06	177 20.8	270 49.7 S 23 24.0	221 41.6 S 19 04.8	48 48.6 N 22 10.9	103 41.8 N 21 56.4	191 39.6 S 8 17.8	50 26.2 N 23 32.7	57.1	Diphda	348 47.2	S 17 51.0
07	192 23.3	285 49.4 S 23 24.0	236 41.2 S 19 03.9	63 51.4 N 22 11.1	118 44.6 N 21 56.4	206 41.9 S 8 17.7	64 54.2 N 23 23.3	57.1	Dubhe	193 41.1	N 61 36.7
08	207 25.7	300 49.1 S 23 24.1	251 40.8 S 19 03.0	78 54.3 N 22 11.3	133 47.4 N 21 56.3	221 44.3 S 8 17.7	79 22.3 N 23 13.7	57.0	Elnath	278 01.6	N 28 37.7
09	222 28.2	315 48.8 S 23 24.2	266 40.5 S 19 02.1	93 57.1 N 22 11.5	148 50.2 N 21 56.3	236 46.6 S 8 17.6	93 50.6 N 23 04.1	57.0	Etamin	90 42.7	N 51 29.2
10	237 30.7	330 48.5 S 23 24.2	281 40.1 S 19 01.2	108 59.9 N 22 11.7	163 53.0 N 21 56.3	251 48.9 S 8 17.6	108 18.9 N 22 54.4	57.0	Enif	33 39.0	N 9 59.4
11	252 33.1	345 48.2 S 23 24.3	296 39.8 S 19 00.3	124 02.8 N 22 11.9	178 55.8 N 21 56.2	266 51.3 S 8 17.5	122 47.4 N 22 44.5	56.9			
12	267 35.6	0 47.9 S 23 24.3	311 39.4 S 18 59.4	139 05.6 N 22 12.1	193 58.7 N 21 56.2	281 53.6 S 8 17.4	137 16.0 N 22 34.6	56.9	Fomalhaut	15 14.6	S 29 29.6
13	282 38.1	15 47.6 S 23 24.4	326 39.0 S 18 58.5	154 08.5 N 22 12.3	209 01.5 N 21 56.2	296 55.9 S 8 17.4	151 44.8 N 22 24.5	56.9	Gacrux	171 52.1	S 57 14.9
14	297 40.5	30 47.3 S 23 24.4	341 38.7 S 18 57.6	169 11.3 N 22 12.6	224 04.3 N 21 56.2	311 58.3 S 8 17.3	166 13.7 N 22 14.3	56.8	Gienah	175 43.8	S 17 40.7
15	312 43.0	45 47.0 S 23 24.5	356 38.3 S 18 56.7	184 14.2 N 22 12.8	239 07.1 N 21 56.1	327 00.6 S 8 17.3	180 42.7 N 22 04.1	56.8	Hadar	148 36.7	S 60 29.4
16	327 45.4	60 46.7 S 23 24.6	11 38.0 S 18 55.8	199 17.0 N 22 13.0	254 09.9 N 21 56.1	342 03.0 S 8 17.2	195 11.8 N 21 53.7	56.8	Hamal	327 51.0	N 23 34.9
17	342 47.9	75 46.4 S 23 24.6	26 37.6 S 18 55.0	214 19.9 N 22 13.2	269 12.7 N 21 56.1	357 05.3 S 8 17.1	209 41.0 N 21 43.2	56.7			
18	357 50.4	90 46.1 S 23 24.7	41 37.3 S 18 54.1	229 22.8 N 22 13.4	284 15.5 N 21 56.0	12 07.6 S 8 17.1	224 10.4 N 21 32.7	56.7	Kaus aust.	83 33.0	S 34 22.4
19	12 52.8	105 45.7 S 23 24.7	56 36.9 S 18 53.2	244 25.6 N 22 13.6	299 18.3 N 21 56.0	27 10.0 S 8 17.0	238 39.8 N 21 22.0	56.7	Kochab	137 20.8	N 74 03.0
20	27 55.3	120 45.4 S 23 24.8	71 36.6 S 18 52.3	259 28.5 N 22 13.8	314 21.2 N 21 56.0	42 12.3 S 8 17.0	253 09.5 N 21 11.2	56.6	Markab	13 30.0	N 15 20.5
21	42 57.8	135 45.1 S 23 24.8	86 36.2 S 18 51.4	274 31.3 N 22 14.0	329 24.0 N 21 56.0	57 14.6 S 8 16.9	267 39.2 N 21 00.4	56.6	Menkar	314 05.9	N 4 11.3
22	58 00.2	150 44.8 S 23 24.9	101 35.8 S 18 50.5	289 34.2 N 22 14.2	344 26.8 N 21 55.9	72 17.0 S 8 16.8	282 09.0 N 20 49.4	56.6	Menkent	147 58.1	S 36 29.4
23	73 02.7	165 44.5 S 23 24.9	116 35.5 S 18 49.6	304 37.1 N 22 14.4	359 29.6 N 21 55.9	87 19.3 S 8 16.8	296 39.0 N 20 38.4	56.6			
19 00	88 05.2	180 44.2 S 23 25.0	131 35.2 S 18 48.6	319 39.9 N 22 14.7	14 32.4 N 21 55.9	102 21.6 S 8 16.7	311 09.1 N 20 27.3	56.5	Miaplacidus	221 37.9	S 69 48.8
01	103 07.6	195 43.9 S 23 25.0	146 34.8 S 18 47.7	334 42.8 N 22 14.9	29 35.2 N 21 55.8	117 24.0 S 8 16.7	325 39.3 N 20 16.1	56.5	Mirfak	308 27.9	N 49 57.1
02	118 10.1	210 43.6 S 23 25.0	161 34.5 S 18 46.8	349 45.7 N 22 15.1	44 38.0 N 21 55.8	132 26.3 S 8 16.6	340 09.6 N 20 04.8	56.5	Mizar	158 46.3	S 54 47.5
03	133 12.6	225 43.3 S 23 25.1	176 34.1 S 18 45.9	4 48.5 N 22 15.3	59 40.8 N 21 55.8	147 28.6 S 8 16.5	354 40.0 N 19 53.4	56.4	Nunki	75 48.2	S 26 16.0
04	148 15.0	240 43.0 S 23 25.1	191 33.8 S 18 45.0	19 51.4 N 22 15.5	74 43.6 N 21 55.7	162 31.0 S 8 16.5	9 10.6 N 19 42.0	56.4	Peacock	53 06.2	S 56 39.5
05	163 17.5	255 42.7 S 23 25.2	206 33.4 S 18 44.1	34 54.3 N 22 15.7	89 46.5 N 21 55.7	177 33.3 S 8 16.4	23 41.2 N 19 30.5	56.4	Polaris	313 37.9	N 89 22.3
06	178 19.9	270 42.4 S 23 25.2	221 33.1 S 18 43.2	49 57.2 N 22 15.9	104 49.3 N 21 55.7	192 35.6 S 8 16.4	38 12.0 N 19 18.8	56.3	Pollux	243 17.2	N 27 57.9
07	193 22.4	285 42.0 S 23 25.3	236 32.7 S 18 42.3	65 00.0 N 22 16.2	119 52.1 N 21 55.7	207 38.0 S 8 16.3	52 42.9 N 19 07.2	56.3	Procyon	244 50.7	N 5 09.7
08	208 24.9	300 41.7 S 23 25.3	251 32.4 S 18 41.4	80 02.9 N 22 16.4	134 54.9 N 21 55.6	222 40.3 S 8 16.2	67 13.9 N 18 55.4	56.3	Rasalhague	95 59.0	N 12 32.5
09	223 27.3	315 41.4 S 23 25.3	266 32.1 S 18 40.5	95 05.8 N 22 16.6	149 57.7 N 21 55.6	237 42.6 S 8 16.2	81 45.0 N 18 43.6	56.2	Regulus	207 34.5	N 11 50.7
10	238 29.8	330 41.1 S 23 25.4	281 31.7 S 18 3								

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024 DICEMBRE	07
d h	'	'	'	'	'	'	'	'	NOME	360 - AR	Dec.
20 00	89 04.3	180 36.8 S 23 25.8	131 27.0 S 18 26.8	320 49.2 N 22 19.8	15 39.8 N 21 55.2	103 17.6 S 8 15.3	299 44.5 N 15 38.0	55.8			
01	104 06.8	195 36.5 S 23 25.9	146 26.7 S 18 25.8	335 52.1 N 22 20.1	30 42.7 N 21 55.1	118 20.0 S 8 15.2	314 17.2 N 15 25.2	55.8	Acamar	315 11.4	S 40 12.3
02	119 09.2	210 36.2 S 23 25.9	161 26.4 S 18 24.9	350 55.0 N 22 20.3	45 45.5 N 21 55.1	133 22.3 S 8 15.1	328 50.1 N 15 12.3	55.7	Achernar	335 19.8	S 57 06.8
03	134 11.7	225 35.9 S 23 25.9	176 26.1 S 18 24.0	5 57.9 N 22 20.5	60 48.3 N 21 55.1	148 24.6 S 8 15.1	343 23.0 N 14 59.4	55.7	AcruX	173 00.5	S 63 13.9
04	149 14.2	240 35.6 S 23 25.9	191 25.7 S 18 23.1	21 00.8 N 22 20.7	75 51.1 N 21 55.0	163 26.9 S 8 15.0	357 56.1 N 14 46.4	55.7	Adhara	255 05.6	S 29 00.2
05	164 16.6	255 35.2 S 23 26.0	206 25.4 S 18 22.1	36 03.7 N 22 20.9	90 53.9 N 21 55.0	178 29.3 S 8 14.9	12 29.2 N 14 33.3	55.6	Aldebaran	290 39.4	N 16 33.6
06	179 19.1	270 34.9 S 23 26.0	221 25.1 S 18 21.2	51 06.6 N 22 21.2	105 56.7 N 21 55.0	193 31.6 S 8 14.9	27 02.4 N 14 20.2	55.6			
07	194 21.6	285 34.6 S 23 26.0	236 24.8 S 18 20.3	66 09.5 N 22 21.4	120 59.5 N 21 55.0	208 33.9 S 8 14.8	41 35.7 N 14 07.1	55.6	Alioth	166 13.3	N 55 49.2
08	209 24.0	300 34.3 S 23 26.0	251 24.5 S 18 19.4	81 12.5 N 22 21.6	136 02.3 N 21 54.9	223 36.3 S 8 14.8	56 09.1 N 13 53.9	55.6	Alkaid	152 52.4	N 49 11.1
09	224 26.5	315 34.0 S 23 26.1	266 24.1 S 18 18.4	96 15.4 N 22 21.8	151 05.1 N 21 54.9	238 38.6 S 8 14.7	70 42.6 N 13 40.7	55.5	Alnair	27 33.1	S 46 50.6
10	239 28.9	330 33.7 S 23 26.1	281 23.8 S 18 17.5	111 18.3 N 22 22.1	166 07.9 N 21 54.9	253 40.9 S 8 14.6	85 16.2 N 13 27.5	55.5	Alnilam	275 37.5	S 1 11.1
11	254 31.4	345 33.4 S 23 26.1	296 23.5 S 18 16.6	126 21.2 N 22 22.3	181 10.7 N 21 54.8	268 43.3 S 8 14.6	99 49.8 N 13 14.1	55.5	Alphard	217 47.7	S 8 45.9
12	269 33.9	0 33.1 S 23 26.1	311 23.2 S 18 15.7	141 24.1 N 22 22.5	196 13.5 N 21 54.8	283 45.6 S 8 14.5	114 23.6 N 13 00.8	55.5			
13	284 36.3	15 32.8 S 23 26.1	326 22.9 S 18 14.7	156 27.1 N 22 22.7	211 16.3 N 21 54.8	298 47.9 S 8 14.4	128 57.4 N 12 47.4	55.4	Alphecca	126 04.2	N 26 37.8
14	299 38.8	30 32.5 S 23 26.1	341 22.6 S 18 13.8	171 30.0 N 22 22.9	226 19.1 N 21 54.8	313 50.2 S 8 14.4	143 31.3 N 12 34.0	55.4	Alpheratz	357 34.8	N 29 13.9
15	314 41.3	45 32.2 S 23 26.2	356 22.2 S 18 12.9	186 32.9 N 22 23.2	241 22.0 N 21 54.7	328 52.6 S 8 14.3	158 05.2 N 12 20.5	55.4	Altair	62 00.3	N 8 56.1
16	329 43.7	60 31.8 S 23 26.2	11 21.9 S 18 11.9	201 35.8 N 22 23.4	256 24.8 N 21 54.7	343 54.9 S 8 14.3	172 39.3 N 12 07.0	55.4	Ankaa	353 07.1	S 42 10.4
17	344 46.2	75 31.5 S 23 26.2	26 21.6 S 18 11.0	216 38.8 N 22 23.6	271 27.6 N 21 54.7	358 57.2 S 8 14.2	187 13.4 N 11 53.5	55.3	Antares	112 16.3	S 26 29.2
18	359 48.7	90 31.2 S 23 26.2	41 21.3 S 18 10.1	231 41.7 N 22 23.8	286 30.2 N 21 54.6	13 59.6 S 8 14.1	201 47.6 N 11 40.0	55.3			
19	14 51.1	105 30.9 S 23 26.2	56 21.0 S 18 09.1	246 44.6 N 22 24.1	301 33.4 N 21 54.6	29 01.9 S 8 14.1	216 21.9 N 11 26.4	55.3	Arcturus	145 48.3	N 19 03.1
20	29 53.6	120 30.6 S 23 26.2	71 20.7 S 18 08.2	261 47.6 N 22 24.3	316 36.0 N 21 54.6	44 04.2 S 8 14.0	230 56.2 N 11 12.7	55.3	Atria	107 11.2	S 69 04.3
21	44 56.0	135 30.3 S 23 26.2	86 20.4 S 18 07.3	276 50.5 N 22 24.5	331 38.8 N 21 54.5	59 06.5 S 8 13.9	245 30.6 N 10 59.1	55.2	Avior	234 14.4	S 59 35.1
22	59 58.5	150 30.0 S 23 26.3	101 20.1 S 18 06.3	291 53.4 N 22 24.7	346 41.6 N 21 54.5	74 08.9 S 8 13.9	260 05.1 N 10 45.4	55.2	Bellatrix	278 22.6	N 6 22.4
23	75 01.0	165 29.7 S 23 26.3	116 19.8 S 18 05.4	306 56.4 N 22 25.0	1 44.4 N 21 54.5	89 11.2 S 8 13.8	274 39.7 N 10 31.7	55.2	Betelgeuse	270 51.9	N 7 24.7
21 00	90 03.4	180 29.4 S 23 26.3	131 19.4 S 18 04.5	321 59.3 N 22 25.2	16 47.2 N 21 54.5	104 13.5 S 8 13.7	289 14.3 N 10 17.9	55.2	Canopus	263 51.9	S 52 42.4
01	105 05.9	195 29.1 S 23 26.3	146 19.1 S 18 03.5	337 02.2 N 22 25.4	31 50.0 N 21 54.4	119 15.8 S 8 13.7	303 49.0 N 10 04.1	55.1	Capella	280 21.5	N 46 01.4
02	120 08.4	210 28.7 S 23 26.3	161 18.8 S 18 02.6	352 05.2 N 22 25.6	46 52.8 N 21 54.4	134 18.2 S 8 13.6	318 23.7 N 9 50.3	55.1	Castor	245 56.9	N 31 50.0
03	135 10.8	225 28.4 S 23 26.3	176 18.5 S 18 01.6	7 08.1 N 22 25.9	61 55.6 N 21 54.4	149 20.5 S 8 13.6	332 58.5 N 9 36.5	55.1	Deneb	49 26.2	N 45 22.3
04	150 13.3	240 28.1 S 23 26.3	191 18.2 S 18 00.7	22 11.1 N 22 26.1	76 58.4 N 21 54.3	164 22.8 S 8 13.5	347 33.4 N 9 22.7	55.1	Denebola	182 25.1	N 44 25.9
05	165 15.8	255 27.8 S 23 26.3	206 17.9 S 17 59.8	37 14.0 N 22 26.3	92 01.2 N 21 54.3	179 25.2 S 8 13.4	2 08.4 N 9 08.8	55.0			
06	180 18.2	270 27.5 S 23 26.3	221 17.6 S 17 58.8	52 17.0 N 22 26.6	107 04.0 N 21 54.3	194 27.5 S 8 13.4	16 43.4 N 8 54.9	55.0	Diphda	348 47.2	S 17 51.1
07	195 20.7	285 27.2 S 23 26.3	236 17.3 S 17 57.9	67 19.9 N 22 26.8	122 06.8 N 21 54.3	209 29.8 S 8 13.3	31 18.4 N 8 41.0	55.0	Dubhe	193 41.1	N 61 36.7
08	210 23.2	300 26.9 S 23 26.3	251 17.0 S 17 56.9	82 22.9 N 22 27.0	137 09.6 N 21 54.2	224 32.1 S 8 13.2	45 53.5 N 8 27.0	55.0	Elnath	278 01.6	N 28 37.7
09	225 25.6	315 26.6 S 23 26.3	266 16.7 S 17 56.0	97 25.8 N 22 27.2	152 12.4 N 21 54.2	239 34.5 S 8 13.2	60 28.7 N 8 13.1	55.0	Etamin	90 42.8	N 51 29.1
10	240 28.1	330 26.3 S 23 26.3	281 16.4 S 17 55.0	112 28.8 N 22 27.5	167 15.2 N 21 54.2	254 36.8 S 8 13.1	75 03.9 N 7 59.1	54.9	Enif	33 39.0	N 9 59.4
11	255 30.5	345 25.9 S 23 26.3	296 16.1 S 17 54.1	127 31.7 N 22 27.7	182 18.0 N 21 54.1	269 39.1 S 8 13.0	89 39.2 N 7 45.1	54.9			
12	270 33.0	0 25.6 S 23 26.3	311 15.8 S 17 53.2	142 34.7 N 22 27.9	197 20.9 N 21 54.1	284 41.4 S 8 13.0	104 14.5 N 7 31.1	54.9	Fomalhaut	15 14.6	S 29 29.6
13	285 35.5	15 25.3 S 23 26.3	326 15.5 S 17 52.2	157 37.7 N 22 28.2	212 23.7 N 21 54.1	299 43.8 S 8 12.9	118 49.9 N 7 17.1	54.9	Gacrux	171 52.0	S 57 14.9
14	300 37.9	30 25.0 S 23 26.3	341 15.3 S 17 51.3	172 40.6 N 22 28.4	227 26.5 N 21 54.1	314 46.1 S 8 12.9	133 25.3 N 7 03.0	54.9	Gienah	175 43.8	S 17 40.7
15	315 40.4	45 24.7 S 23 26.3	356 15.0 S 17 50.3	187 43.6 N 22 28.6	242 29.3 N 21 54.0	329 48.4 S 8 12.8	148 00.8 N 6 48.9	54.8	Hadar	148 36.6	S 60 29.4
16	330 42.9	60 24.4 S 23 26.3	11 14.7 S 17 49.4	202 46.5 N 22 28.9	257 32.1 N 21 54.0	344 50.7 S 8 12.7	162 36.3 N 6 34.9	54.8	Hamal	327 51.0	N 23 34.9
17	345 45.3	75 24.1 S 23 26.3	26 14.4 S 17 48.4	217 49.5 N 22 29.1	272 34.9 N 21 54.0	359 53.1 S 8 12.7	177 11.9 N 6 20.8	54.8			
18	0 47.8	90 23.8 S 23 26.3	41 14.1 S 17 47.5	232 52.5 N 22 29.3	287 37.7 N 21 53.9	14 55.4 S 8 12.6	191 47.5 N 6 06.7	54.8	Kaus aust.	83 33.0	S 34 22.4
19	15 50.3	105 23.5 S 23 26.3	56 13.8 S 17 46.5	247 55.5 N 22 29.5	302 40.5 N 21 53.9	29 57.7 S 8 12.5	206 23.1 N 5 52.6	54.8	Kochab	137 20.8	N 74 02.9
20	30 52.7	120 23.2 S 23 26.3	71 13.5 S 17 45.6	262 58.4 N 22 29.8	317 43.3 N 21 53.9	45 00.0 S 8 12.5	220 58.8 N 5 38.4	54.7	Markab	13 30.0	N 15 20.5
21	45 55.2	135 22.8 S 23 26.2	86 13.2 S 17 44.6	278 01.4 N 22 30.0	332 46.1 N 21 53.8	60 02.4 S 8 12.4	235 34.5 N 5 24.3	54.7	Menkar	314 05.9	N 4 11.3
22	60 57.7	150 22.5 S 23 26.2	101 12.9 S 17 43.7	293 04.4 N 22 30.2	347 48.9 N 21 53.8	75 04.7 S 8 12.3	250 10.3 N 5 10.1	54.7	Menkent	147 58.0	S 36 29.4
23	76 00.1	165 22.2 S 23 26.2	116 12.7 S 17 42.7	308 07.3 N 22 30.5	2 51.7 N 21 53.8	90 07.0 S 8 12.3	264 46.1 N 4 56.0	54.7			
22 00	91 02.6	180 21.9 S 23 26.2	131 12.4 S 17 41.7	323 10.3 N 22 30.7	17 54.5 N 21 53.8	105 09.3 S 8 12.2	279 22.0 N 4 41.8	54.7	Miaplacidus	221 37.9	S 69 48.8
01	106 05.0	195 21.6 S 23 26.2	146 12.1 S 17 40.8	338 13.3 N 22 30.9	32 57.3 N 21 53.7	120 11.7 S 8 12.1	293 57.8 N 4 27.6	54.7	Mirfak	308 27.9	N 49 57.1
02	121 07.5	210 21.3 S 23 26.2	161 11.8 S 17 39.8	353 16.3 N 22 31.2	48 00.1 N 21 53.7	135 14.0 S 8 12.1	308 33.8 N 4 13.5	54.6	Mizar	158 46.3	S 54 47.5
03	136 10.0	225 21.0 S 23 26.2	176 11.5 S 17 38.9	8 19.3 N 22 31.4	63 02.9 N 21 53.7	150 16.3 S 8 12.0	323 09.7 N 3 59.3	54.6	Nunki	75 48.2	S 26 16.0
04	151 12.4	240 20.7 S 23 26.2	191 11.2 S 17 37.9	23 22.2 N 22 31.6	78 05.7 N 21 53.6	165 18.6 S 8 11.9	337 45.7 N 3 45.1	54.6	Peacock	53 06.2	S 56 39.5
05	166 14.9	255 20.4 S 23 26.1	206 11.0 S 17 37.0	38 25.2 N 22 31.9	93 08.5 N 21 53.6	180 21.0 S 8 11.9	352 21.7 N 3 30.9	54.6	Polaris	313 38.4	N 89 22.3
06	181 17.4	270 20.0 S 23 26.1	221 10.7 S 17 36.0	53 28.2 N 22 32.1	108 11.3 N 21 53.6	195 23.3 S 8 11.8	6 57.7 N 3 16.7	54.6	Pollux	243 17.1	N 27 57.9
07	196 19.8	285 19.7 S 23 26.1	236 10.4 S 17 35.0	68 31.2 N 22 32.3	123 14.1 N 21 53.6	210 25.6 S 8 11.8	21 33.8 N 3 02.5	54.6	Procyon	244 50.7	N 5 09.7
08	211 22.3	300 19.4 S 23 26.1	251 10.1 S 17 34.1	83 34.2 N 22 32.6	138 16.9 N 21 53.5	225 27.9 S 8 11.7	36 09.9 N 2 48.3	54.6	Rasalhague	95 59.0	N 12 32.5
09	226 24.8	315 19.1 S 23 26.1	266 09.8 S 17 33.1	98 37.2 N 22 32.8	153 19.7 N 21 53.5	240 30.2 S 8 11.6	50 46.0 N 2 34.1	54.5	Regulus	207 34.5	N 11 50.7
10	241 27.2	330 18.8 S 23 26.1	281 09.6 S 17 32.2	113 40.2 N 22 33.1	168 2						

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024 DICEMBRE	10
d h	' "	' "	' "	' "	' "	' "	' "	' "	NOME	360 - AR	Dec.
23 00	92 01.7	180 14.4 S 23 25.7	131 05.8 S 17 18.6	324 22.2 N 22 36.4	19 01.7 N 21 53.1	106 05.1 S 8 10.6	269 49.9 S 0 58.9	54.4			
01	107 04.2	195 14.1 S 23 25.7	146 05.5 S 17 17.7	339 25.2 N 22 36.6	34 04.4 N 21 53.0	121 07.4 S 8 10.6	284 26.3 S 1 13.1	54.4	Acamar	315 11.4 S 40 12.4	
02	122 06.6	210 13.8 S 23 25.6	161 05.3 S 17 16.7	354 28.2 N 22 36.9	49 07.2 N 21 53.0	136 09.7 S 8 10.5	299 02.7 S 1 27.2	54.3	Achernar	335 19.9 S 57 06.8	
03	137 09.1	225 13.5 S 23 25.6	176 05.0 S 17 15.7	369 31.3 N 22 37.1	64 10.0 N 21 53.0	151 12.0 S 8 10.4	313 39.0 S 1 41.3	54.3	AcruX	173 00.5 S 63 13.9	
04	152 11.6	240 13.2 S 23 25.6	191 04.8 S 17 14.7	384 34.3 N 22 37.3	79 12.8 N 21 53.0	166 14.3 S 8 10.4	328 15.4 S 1 55.5	54.3	Adhara	255 05.6 S 29 00.2	
05	167 14.0	255 12.9 S 23 25.5	206 04.5 S 17 13.8	399 37.3 N 22 37.6	94 15.6 N 21 52.9	181 16.7 S 8 10.3	342 51.7 S 2 09.6	54.3	Aldebaran	290 39.4 N 16 33.6	
06	182 16.5	270 12.6 S 23 25.5	221 04.2 S 17 12.8	414 40.3 N 22 37.8	109 18.4 N 21 52.9	196 19.0 S 8 10.2	357 28.1 S 2 23.7	54.3			
07	197 19.0	285 12.3 S 23 25.5	236 04.0 S 17 11.8	429 43.3 N 22 38.1	124 21.2 N 21 52.9	211 21.3 S 8 10.2	372 04.5 S 2 37.8	54.3	Alioth	166 13.3 N 55 49.2	
08	212 21.4	300 12.0 S 23 25.4	251 03.7 S 17 10.8	444 46.4 N 22 38.3	139 24.0 N 21 52.8	226 23.6 S 8 10.1	387 26.0 S 2 51.9	54.3	Alkaid	152 52.4 N 49 11.1	
09	227 23.9	315 11.7 S 23 25.4	266 03.5 S 17 09.9	459 49.4 N 22 38.5	154 26.8 N 21 52.8	241 25.9 S 8 10.0	402 17.2 S 3 05.9	54.3	Alnair	27 33.1 S 46 50.6	
10	242 26.4	330 11.3 S 23 25.3	281 03.2 S 17 08.9	474 52.4 N 22 38.8	169 29.6 N 21 52.8	256 28.3 S 8 10.0	417 53.5 S 3 20.0	54.3	Alnilam	275 37.5 S 1 11.1	
11	257 28.8	345 11.0 S 23 25.3	296 03.0 S 17 07.9	489 55.4 N 22 39.0	184 32.4 N 21 52.8	271 30.6 S 8 09.9	432 29.9 S 3 34.0	54.3	Alphard	217 47.7 S 8 45.9	
12	272 31.3	0 10.7 S 23 25.3	311 02.7 S 17 06.9	504 58.5 N 22 39.3	199 35.2 N 21 52.7	286 32.9 S 8 09.8	447 06.2 S 3 48.0	54.3			
13	287 33.7	15 10.4 S 23 25.2	326 02.5 S 17 06.0	519 61.5 N 22 39.5	214 38.0 N 21 52.7	301 35.2 S 8 09.8	462 25.5 S 4 02.0	54.3	Alphecca	126 04.1 N 26 37.8	
14	302 36.2	30 10.1 S 23 25.2	341 02.2 S 17 05.0	534 64.5 N 22 39.8	229 40.8 N 21 52.7	316 37.5 S 8 09.7	477 14.8 S 4 16.0	54.3	Alpheratz	357 34.8 N 29 13.9	
15	317 38.7	45 09.8 S 23 25.1	356 02.0 S 17 04.0	549 67.6 N 22 40.0	244 43.6 N 21 52.6	331 39.9 S 8 09.6	492 55.1 S 4 30.0	54.3	Altair	62 00.3 N 8 56.1	
16	332 41.1	60 09.5 S 23 25.1	11 01.7 S 17 03.0	564 70.7 N 22 40.2	259 46.4 N 21 52.6	346 42.2 S 8 09.6	507 44.0 S 4 44.0	54.2	Ankaa	353 07.1 S 42 10.4	
17	347 43.6	75 09.2 S 23 25.0	26 01.5 S 17 02.0	579 73.8 N 22 40.5	274 49.2 N 21 52.6	1 44.5 S 8 09.5	522 37.7 S 4 57.9	54.2	Antares	112 16.3 S 26 29.2	
18	2 46.1	90 08.9 S 23 25.0	41 01.2 S 17 01.1	594 76.9 N 22 40.7	289 52.0 N 21 52.6	16 46.8 S 8 09.4	537 30.9 S 5 11.8	54.2			
19	17 48.5	105 08.5 S 23 25.0	56 01.0 S 17 00.1	609 79.9 N 22 41.0	304 54.8 N 21 52.5	31 49.1 S 8 09.4	552 23.2 S 5 25.7	54.2	Arcturus	145 48.2 N 19 03.1	
20	32 51.0	120 08.2 S 23 24.9	71 00.7 S 16 59.1	624 82.9 N 22 41.2	319 57.6 N 21 52.5	46 51.4 S 8 09.3	567 16.6 S 5 39.6	54.2	Atria	107 11.2 S 69 04.3	
21	47 53.5	135 07.9 S 23 24.9	86 00.5 S 16 58.1	639 85.9 N 22 41.5	335 00.4 N 21 52.5	61 53.8 S 8 09.2	582 09.5 S 5 53.4	54.2	Avior	234 14.3 S 59 35.1	
22	62 55.9	150 07.6 S 23 24.8	101 00.2 S 16 57.1	654 89.0 N 22 41.7	350 03.1 N 21 52.4	76 56.1 S 8 09.2	597 02.6 S 6 07.3	54.2	Bellatrix	278 22.6 N 6 22.4	
23	77 58.4	165 07.3 S 23 24.8	116 00.0 S 16 56.1	669 92.1 N 22 42.0	365 05.9 N 21 52.4	91 58.4 S 8 09.1	612 05.0 S 6 21.1	54.2	Betelgeuse	270 51.8 N 7 24.7	
24 00	93 00.0	180 07.0 S 23 24.7	130 59.7 S 16 55.1	684 95.2 N 22 42.2	380 08.7 N 21 52.4	107 00.7 S 8 09.0	627 11.1 S 6 34.9	54.2	Canopus	263 51.9 S 52 42.4	
01	108 03.3	195 06.7 S 23 24.7	145 59.5 S 16 54.2	699 98.3 N 22 42.4	395 11.5 N 21 52.4	122 03.0 S 8 09.0	642 15.3 S 6 48.6	54.2	Capella	280 21.5 N 46 01.4	
02	123 05.8	210 06.4 S 23 24.6	160 59.3 S 16 53.2	714 101.4 N 22 42.7	410 14.3 N 21 52.3	137 05.3 S 8 08.9	657 19.4 S 7 02.4	54.2	Castor	245 56.8 N 31 50.0	
03	138 08.2	225 06.1 S 23 24.5	175 59.0 S 16 52.2	729 104.5 N 22 42.9	425 17.1 N 21 52.3	152 07.7 S 8 08.8	672 23.5 S 7 16.1	54.2	Deneb	49 26.2 N 45 22.3	
04	153 10.7	240 05.7 S 23 24.5	190 58.8 S 16 51.2	744 107.6 N 22 43.2	440 19.9 N 21 52.3	167 10.0 S 8 08.8	687 27.6 S 7 29.8	54.2	Denebola	182 25.1 N 14 25.9	
05	168 13.2	255 05.4 S 23 24.4	205 58.6 S 16 50.2	759 110.7 N 22 43.4	455 22.7 N 21 52.2	182 12.3 S 8 08.7	702 31.7 S 7 43.4	54.2			
06	183 15.6	270 05.1 S 23 24.4	220 58.3 S 16 49.2	774 113.8 N 22 43.7	470 25.5 N 21 52.2	197 14.6 S 8 08.6	717 35.6 S 7 57.1	54.2	Diphda	348 47.2 S 17 51.1	
07	198 18.1	285 04.8 S 23 24.3	235 58.1 S 16 48.2	789 116.9 N 22 43.9	485 28.3 N 21 52.2	212 16.9 S 8 08.6	732 39.5 S 8 10.7	54.2	Dubhe	193 41.0 N 61 36.7	
08	213 20.6	300 04.5 S 23 24.3	250 57.8 S 16 47.2	804 120.0 N 22 44.2	500 31.1 N 21 52.2	227 19.2 S 8 08.5	747 43.4 S 8 24.2	54.2	Elnath	278 01.6 N 28 37.7	
09	228 23.0	315 04.2 S 23 24.2	265 57.6 S 16 46.2	819 123.1 N 22 44.4	515 33.9 N 21 52.1	242 21.6 S 8 08.4	762 47.3 S 8 37.8	54.2	Etamin	90 42.8 N 51 29.1	
10	243 25.5	330 03.9 S 23 24.2	280 57.4 S 16 45.3	834 126.2 N 22 44.7	530 36.6 N 21 52.1	257 23.9 S 8 08.3	777 51.2 S 8 51.3	54.2	Enif	33 39.0 N 9 59.4	
11	258 28.0	345 03.6 S 23 24.1	295 57.1 S 16 44.3	849 129.3 N 22 44.9	545 39.4 N 21 52.1	272 26.2 S 8 08.3	792 55.1 S 9 04.8	54.2			
12	273 30.4	0 03.3 S 23 24.0	310 56.9 S 16 43.3	864 132.4 N 22 45.2	560 42.2 N 21 52.0	287 28.5 S 8 08.2	807 59.0 S 9 18.3	54.2	Fomalhaut	15 14.6 S 29 29.6	
13	288 32.9	15 03.0 S 23 24.0	325 56.7 S 16 42.3	879 135.5 N 22 45.4	575 45.0 N 21 52.0	302 30.8 S 8 08.1	822 62.9 S 9 31.7	54.2	Gacrux	171 52.0 S 57 14.9	
14	303 35.4	30 02.6 S 23 23.9	340 56.5 S 16 41.3	894 138.6 N 22 45.7	590 47.8 N 21 52.0	317 33.1 S 8 08.1	837 66.8 S 9 45.1	54.2	Gienah	175 43.8 S 17 40.7	
15	318 37.8	45 02.3 S 23 23.8	355 56.2 S 16 40.3	909 141.7 N 22 45.9	605 50.6 N 21 52.0	332 35.5 S 8 08.0	852 70.7 S 9 58.5	54.2	Hadar	148 36.6 S 60 29.3	
16	333 40.3	60 02.0 S 23 23.8	10 56.0 S 16 39.3	924 144.8 N 22 46.2	620 53.4 N 21 51.9	347 37.8 S 8 07.9	867 74.6 S 10 11.8	54.2	Hamal	327 51.0 N 23 34.9	
17	348 42.7	75 01.7 S 23 23.7	25 55.8 S 16 38.3	939 147.9 N 22 46.4	635 56.2 N 21 51.9	2 40.1 S 8 07.9	882 78.5 S 10 25.1	54.2			
18	3 45.2	90 01.4 S 23 23.7	40 55.5 S 16 37.3	954 151.0 N 22 46.7	650 59.0 N 21 51.9	17 42.4 S 8 07.8	897 82.4 S 10 38.3	54.2	Kaus aust.	83 33.0 S 34 22.4	
19	18 47.7	105 01.1 S 23 23.6	55 55.3 S 16 36.3	969 154.1 N 22 46.9	665 61.8 N 21 51.8	32 44.7 S 8 07.7	912 86.3 S 10 51.5	54.2	Kochab	137 20.7 N 74 02.9	
20	33 50.1	120 00.8 S 23 23.5	70 55.1 S 16 35.3	984 157.2 N 22 47.2	680 64.5 N 21 51.8	47 47.0 S 8 07.7	927 90.2 S 11 04.7	54.2	Markab	13 30.0 N 15 20.5	
21	48 52.6	135 00.5 S 23 23.5	85 54.9 S 16 34.3	999 160.3 N 22 47.4	695 67.3 N 21 51.8	62 49.3 S 8 07.6	942 94.1 S 11 17.9	54.2	Menkar	314 05.9 N 4 11.3	
22	63 55.1	150 00.2 S 23 23.4	100 54.7 S 16 33.3	1014 163.4 N 22 47.7	710 70.1 N 21 51.8	77 51.7 S 8 07.5	957 98.0 S 11 31.0	54.2	Menkent	147 58.0 S 36 29.4	
23	78 57.5	164 59.8 S 23 23.3	115 54.4 S 16 32.3	1029 166.5 N 22 47.9	725 72.9 N 21 51.7	92 54.0 S 8 07.5	972 101.9 S 11 44.1	54.2			
25 00	94 00.0	179 59.5 S 23 23.2	130 54.2 S 16 31.3	1044 169.6 N 22 48.2	740 75.7 N 21 51.7	107 56.3 S 8 07.4	987 105.8 S 11 57.1	54.3	Miaplacidus	221 37.9 S 69 48.8	
01	109 02.5	194 59.2 S 23 23.2	145 54.0 S 16 30.3	1059 172.7 N 22 48.4	755 78.6 N 21 51.7	122 58.6 S 8 07.3	1002 110.7 S 12 10.1	54.3	Mirfak	308 27.9 N 49 57.1	
02	124 04.9	209 58.9 S 23 23.1	160 53.8 S 16 29.3	1074 175.8 N 22 48.7	770 81.5 N 21 51.7	138 00.9 S 8 07.3	1017 115.6 S 12 23.0	54.3	Mizar	158 46.3 S 54 47.5	
03	139 07.4	224 58.6 S 23 23.0	175 53.6 S 16 28.3	1089 178.9 N 22 48.9	785 84.4 N 21 51.6	153 03.2 S 8 07.2	1032 120.5 S 12 35.9	54.3	Nunki	75 48.2 S 26 16.0	
04	154 09.8	239 58.3 S 23 23.0	190 53.3 S 16 27.3	1104 182.0 N 22 49.2	800 87.3 N 21 51.6	168 05.5 S 8 07.1	1047 125.4 S 12 48.8	54.3	Peacock	53 06.3 S 56 39.5	
05	169 12.3	254 58.0 S 23 22.9	205 53.1 S 16 26.3	1119 185.1 N 22 49.4	815 90.2 N 21 51.6	183 07.8 S 8 07.0	1062 130.3 S 13 01.6	54.3	Polaris	313 39.1 N 89 22.3	
06	184 14.8	269 57.7 S 23 22.8	220 52.9 S 16 25.3	1134 188.2 N 22 49.7	830 93.1 N 21 51.5	198 10.2 S 8 07.0	1077 135.2 S 13 14.4	54.3	Pollux	243 17.1 N 27 57.9	
07	199 17.2	284 57.4 S 23 22.7	235 52.7 S 16 24.3	1149 191.3 N 22 49.9	845 96.0 N 21 51.5	213 12.5 S 8 06.9	1092 140.1 S 13 27.1	54.3	Procyon	244 50.6 N 5 09.7	
08	214 19.7	299 57.1 S 23 22.6	250 52.5 S 16 23.3	1164 194.4 N 22 50.2	860 98.9 N 21 51.5	228 14.8 S 8 06.8	1107 145.0 S 13 39.8	54.3	Rasalhague	95 59.0 N 12 32.5	
09	229 22.2	314 56.7 S 23 22.6	265 52.3 S 16 22.3	1179 197.5 N 22 50.4	875 101.8 N 21 51.5	243 17.1 S 8 06.8	1122 150.0 S 13 52.4	54.3	Regulus	207 34.4 N 11 50.7	
10	244 24.6	329 56.4 S 23 22.5	280 52.1 S 16 21.2	1194 200.6 N 22 50.7	890 104.7 N 21 51.4	258 19.4 S 8 06.7	1137 154.9 S 14 05.0	54.3			
11	259 27.1	344 56.1 S 23 22.4	295 51.9 S 16 20.2	1209 203.7							

U.T.	Ts	T SOLE Dec	T VENERE Dec	T MARTE Dec	T GIOVE Dec	T SATURNO Dec	T LUNA Dec	PAR	STELLE	2024 DICEMBRE	13
d h	' "	' "	' "	' "	' "	' "	' "	' "	NOME	360 - AR	Dec.
26 00	94 59.1	179 52.1 S 23 21.3	130 49.2 S 16 07.1	328 03.0 N 22 54.2	22 22.6 N 21 51.0	108 51.8 S 8 05.7	240 28.1 S 16 55.7	54.4			
01	110 01.6	194 51.8 S 23 21.2	145 49.0 S 16 06.1	343 06.1 N 22 54.5	37 25.3 N 21 51.0	123 54.1 S 8 05.6	255 01.8 S 17 07.5	54.5	Acamar	315 11.5	S 40 12.4
02	125 04.1	209 51.5 S 23 21.1	160 48.8 S 16 05.1	358 09.3 N 22 54.8	52 28.1 N 21 51.0	138 56.4 S 8 05.6	269 35.4 S 17 19.2	54.5	Achernar	335 19.9	S 57 06.8
03	140 06.5	224 51.2 S 23 21.0	175 48.6 S 16 04.0	13 12.4	67 30.9 N 21 51.0	153 58.7 S 8 05.5	284 09.0 S 17 30.8	54.5	Acruz	173 00.4	S 63 13.9
04	155 09.0	239 50.9 S 23 20.9	190 48.4 S 16 03.0	28 15.5	82 33.7 N 21 50.9	169 01.0 S 8 05.4	298 42.4 S 17 42.4	54.5	Adhara	255 05.6	S 29 00.2
05	170 11.5	254 50.6 S 23 20.8	205 48.2 S 16 02.0	43 18.6	97 36.5 N 21 50.9	184 03.3 S 8 05.4	313 15.8 S 17 53.9	54.5	Aldebaran	290 39.4	N 16 33.6
06	185 13.9	269 50.3 S 23 20.8	220 48.0 S 16 01.0	58 21.8	112 39.3 N 21 50.9	199 05.6 S 8 05.3	327 49.2 S 18 05.4	54.5			
07	200 16.4	284 49.9 S 23 20.7	235 47.8 S 16 00.0	73 24.9	127 42.0 N 21 50.8	214 07.9 S 8 05.2	342 22.4 S 18 16.7	54.5	Alioth	166 13.2	N 55 49.2
08	215 18.8	299 49.6 S 23 20.6	250 47.7 S 15 58.9	88 28.0	142 44.8 N 21 50.8	229 10.2 S 8 05.2	356 55.6 S 18 28.0	54.5	Alkaid	152 52.4	N 49 11.1
09	230 21.3	314 49.3 S 23 20.5	265 47.5 S 15 57.9	103 31.2	157 47.6 N 21 50.8	244 12.5 S 8 05.1	11 28.6 S 18 39.3	54.6	Alnair	27 33.2	S 46 50.6
10	245 23.8	329 49.0 S 23 20.4	280 47.3 S 15 56.9	118 34.3	172 50.4 N 21 50.8	259 14.9 S 8 05.0	26 01.6 S 18 50.5	54.6	Alnilam	275 37.5	S 1 11.1
11	260 26.2	344 48.7 S 23 20.3	295 47.1 S 15 55.9	133 37.4	187 53.2 N 21 50.7	274 17.2 S 8 04.9	40 34.6 S 19 01.6	54.6	Alphard	217 47.7	S 8 45.9
12	275 28.7	359 48.4 S 23 20.2	310 46.9 S 15 54.9	148 40.6	202 55.9 N 21 50.7	289 19.5 S 8 04.9	55 07.4 S 19 12.6	54.6			
13	290 31.2	14 48.1 S 23 20.1	325 46.7 S 15 53.8	163 43.7	217 58.7 N 21 50.7	304 21.8 S 8 04.8	69 40.1 S 19 23.5	54.6	Alphecca	126 04.1	N 26 37.8
14	305 33.6	29 47.8 S 23 20.0	340 46.5 S 15 52.8	178 46.8	233 01.5 N 21 50.7	319 24.1 S 8 04.7	84 12.8 S 19 34.4	54.6	Alpheratz	357 34.8	N 29 13.9
15	320 36.1	44 47.5 S 23 19.9	355 46.3 S 15 51.8	193 50.0	248 04.3 N 21 50.6	334 26.4 S 8 04.7	98 45.4 S 19 45.2	54.6	Altair	62 00.3	N 8 56.1
16	335 38.6	59 47.2 S 23 19.8	10 46.2 S 15 50.8	208 53.1	263 07.1 N 21 50.6	349 28.7 S 8 04.6	113 17.9 S 19 55.9	54.7	Ankaa	353 07.1	S 42 10.5
17	350 41.0	74 46.9 S 23 19.7	25 46.0 S 15 49.7	223 56.3	278 09.8 N 21 50.6	4 31.0 S 8 04.5	127 50.3 S 20 06.6	54.7	Antares	112 16.3	S 26 29.2
18	5 43.5	89 46.5 S 23 19.6	40 45.8 S 15 48.7	238 59.4	293 12.6 N 21 50.5	19 33.3 S 8 04.4	142 22.6 S 20 17.2	54.7			
19	20 46.0	104 46.2 S 23 19.4	55 45.6 S 15 47.7	254 02.6	308 15.4 N 21 50.5	34 35.6 S 8 04.4	156 54.8 S 20 27.7	54.7	Arcturus	145 48.2	N 19 03.1
20	35 48.4	119 45.9 S 23 19.3	70 45.4 S 15 46.7	269 05.7	323 18.2 N 21 50.5	49 37.9 S 8 04.3	171 27.0 S 20 38.1	54.7	Atria	107 11.2	S 69 04.3
21	50 50.9	134 45.6 S 23 19.2	85 45.3 S 15 45.6	284 08.9	338 21.0 N 21 50.5	64 40.2 S 8 04.2	185 59.0 S 20 48.4	54.7	Avior	234 14.3	S 59 35.1
22	65 53.3	149 45.3 S 23 19.1	100 45.1 S 15 44.6	299 12.0	353 23.7 N 21 50.4	79 42.6 S 8 04.2	200 31.0 S 20 58.6	54.7	Bellatrix	278 22.6	N 6 22.4
23	80 55.8	164 45.0 S 23 19.0	115 44.9 S 15 43.6	314 15.2	8 26.5 N 21 50.4	94 44.9 S 8 04.1	215 02.8 S 21 08.8	54.8	Betelgeuse	270 51.8	N 7 24.7
27 00	95 58.3	179 44.7 S 23 18.9	130 44.7 S 15 42.5	329 18.3	23 29.3 N 21 50.4	109 47.2 S 8 04.0	229 34.6 S 21 18.9	54.8	Canopus	263 51.9	S 52 42.4
01	111 00.7	194 44.4 S 23 18.8	145 44.6 S 15 41.5	344 21.5	38 32.1 N 21 50.3	124 49.5 S 8 03.9	244 06.3 S 21 28.9	54.8	Capella	280 21.5	N 46 01.4
02	126 03.2	209 44.1 S 23 18.7	160 44.4 S 15 40.5	359 24.6	53 34.9 N 21 50.3	139 51.8 S 8 03.9	258 37.9 S 21 38.8	54.8	Castor	245 56.8	N 31 50.0
03	141 05.7	224 43.8 S 23 18.6	175 44.2 S 15 39.4	14 27.8	68 37.6 N 21 50.3	154 54.1 S 8 03.8	273 09.4 S 21 48.6	54.8	Deneb	49 26.2	N 45 22.3
04	156 08.1	239 43.5 S 23 18.5	190 44.0 S 15 38.4	29 30.9	83 40.4 N 21 50.3	169 56.4 S 8 03.7	287 40.8 S 21 58.3	54.8	Denebola	182 25.1	N 14 25.9
05	171 10.6	254 43.2 S 23 18.3	205 43.9 S 15 37.4	44 34.1	98 43.2 N 21 50.2	184 58.7 S 8 03.7	302 12.1 S 22 07.9	54.9			
06	186 13.1	269 42.9 S 23 18.2	220 43.7 S 15 36.3	59 37.3	113 46.0 N 21 50.2	200 01.0 S 8 03.6	316 43.3 S 22 17.5	54.9	Diphda	348 47.2	S 17 51.1
07	201 15.5	284 42.5 S 23 18.1	235 43.5 S 15 35.3	74 40.4	128 48.7 N 21 50.2	215 03.3 S 8 03.5	331 14.5 S 22 26.9	54.9	Dubhe	193 41.0	N 61 36.7
08	216 18.0	299 42.2 S 23 18.0	250 43.3 S 15 34.3	89 43.6	143 51.5 N 21 50.2	230 05.6 S 8 03.4	345 45.5 S 22 36.3	54.9	Elnath	278 01.6	N 28 37.7
09	231 20.4	314 41.9 S 23 17.9	265 43.2 S 15 33.2	104 46.7	158 54.3 N 21 50.1	245 07.9 S 8 03.4	0 16.4 S 22 45.5	54.9	Etamin	90 42.8	N 51 29.1
10	246 22.9	329 41.6 S 23 17.8	280 43.0 S 15 32.2	119 49.9	173 57.1 N 21 50.1	260 10.2 S 8 03.3	14 47.3 S 22 54.7	55.0	Enif	33 39.0	N 9 59.4
11	261 25.4	344 41.3 S 23 17.6	295 42.8 S 15 31.2	134 53.1	188 59.8 N 21 50.1	275 12.5 S 8 03.2	29 18.0 S 23 03.8	55.0			
12	276 27.8	359 41.0 S 23 17.5	310 42.7 S 15 30.1	149 56.3	203 03.6	204 02.6 N 21 50.0	43 48.7 S 23 12.7	55.0	Fomalhaut	15 14.6	S 29 29.6
13	291 30.3	14 40.7 S 23 17.4	325 42.5 S 15 29.1	164 59.4	219 05.4 N 21 50.0	305 17.1 S 8 03.1	58 19.3 S 23 21.6	55.0	Gacrux	171 51.9	S 57 14.9
14	306 32.8	29 40.4 S 23 17.3	340 42.4 S 15 28.1	180 02.6	234 08.1 N 21 50.0	320 19.4 S 8 03.0	72 49.7 S 23 30.4	55.0	Gienah	175 43.8	S 17 40.7
15	321 35.2	44 40.1 S 23 17.2	355 42.2 S 15 27.0	195 05.8	249 11.0 N 21 50.0	335 21.8 S 8 02.9	87 20.1 S 23 39.0	55.1	Hadar	148 36.6	S 60 29.3
16	336 37.7	59 39.8 S 23 17.0	10 42.0 S 15 26.0	210 08.9	264 13.7 N 21 49.9	350 24.1 S 8 02.9	101 50.4 S 23 47.6	55.1	Hamal	327 51.1	N 23 34.9
17	351 40.2	74 39.5 S 23 16.9	25 41.9 S 15 24.9	225 12.1	283 04.9	279 16.5 N 21 49.9	5 26.4 S 8 02.8	55.1			
18	6 42.6	89 39.2 S 23 16.8	40 41.7 S 15 23.9	240 15.3	303 05.2	294 19.3 N 21 49.9	20 28.7 S 8 02.7	55.1	Kaus aust.	83 33.0	S 34 22.4
19	21 45.1	104 38.9 S 23 16.7	55 41.6 S 15 22.9	255 18.5	323 05.4	309 22.0 N 21 49.9	35 31.0 S 8 02.6	55.1	Kochab	137 20.7	N 74 02.9
20	36 47.6	119 38.6 S 23 16.5	70 41.4 S 15 21.8	270 21.7	342 04.8 N 21 49.8	50 33.3 S 8 02.6	159 50.5 S 24 20.7	55.2	Markab	13 30.0	N 15 20.5
21	51 50.0	134 38.2 S 23 16.4	85 41.2 S 15 20.8	285 24.8	363 06.0	339 27.6 N 21 49.8	65 35.6 S 8 02.5	55.2	Menkar	314 06.0	N 4 11.3
22	66 52.5	149 37.9 S 23 16.3	100 41.1 S 15 19.7	300 28.0	383 06.2	354 30.4 N 21 49.8	80 37.9 S 8 02.4	55.2	Menkent	147 58.0	S 36 29.4
23	81 54.9	164 37.6 S 23 16.2	115 40.9 S 15 18.7	315 31.2	9 33.1 N 21 49.8	95 40.2 S 8 02.3	203 19.6 S 24 44.4	55.2			
28 00	96 57.4	179 37.3 S 23 16.0	130 40.8 S 15 17.7	330 34.4	24 35.9 N 21 49.7	110 42.5 S 8 02.3	217 49.1 S 24 52.1	55.2	Miaplacidus	221 37.8	S 69 48.8
01	111 59.9	194 37.0 S 23 15.9	145 40.6 S 15 16.6	345 37.6	39 38.7 N 21 49.7	125 44.8 S 8 02.2	232 18.5 S 24 59.7	55.3	Mirfak	308 27.9	N 49 57.1
02	127 02.3	209 36.7 S 23 15.8	160 40.5 S 15 15.6	0 40.8	54 41.5 N 21 49.7	140 47.1 S 8 02.1	246 47.8 S 25 07.1	55.3	Mizar	158 46.2	N 54 47.5
03	142 04.8	224 36.4 S 23 15.6	175 40.3 S 15 14.5	15 44.0	69 44.2 N 21 49.6	155 49.4 S 8 02.1	261 17.0 S 25 14.5	55.3	Nunki	75 48.2	S 26 16.0
04	157 07.3	239 36.1 S 23 15.5	190 40.2 S 15 13.5	30 47.2	84 47.0 N 21 49.6	170 51.7 S 8 02.0	275 46.1 S 25 21.7	55.3	Peacock	53 06.3	S 56 39.5
05	172 09.7	254 35.8 S 23 15.4	205 40.0 S 15 12.4	45 50.4	99 49.8 N 21 49.6	185 54.0 S 8 01.9	290 15.1 S 25 28.8	55.3	Polaris	313 39.5	N 89 22.3
06	187 12.2	269 35.5 S 23 15.2	220 39.9 S 15 11.4	60 53.5	114 52.6 N 21 49.6	200 56.3 S 8 01.8	304 44.1 S 25 35.7	55.4	Pollux	243 17.1	N 27 57.9
07	202 14.7	284 35.2 S 23 15.1	235 39.7 S 15 10.3	75 56.7	129 55.3 N 21 49.5	215 58.6 S 8 01.8	319 12.9 S 25 42.6	55.4	Procyon	244 50.6	N 5 09.7
08	217 17.1	299 34.9 S 23 15.0	250 39.6 S 15 09.3	90 59.9	144 58.1 N 21 49.5	231 00.9 S 8 01.7	333 41.7 S 25 49.3	55.4	Rasalhague	95 59.0	N 12 32.5
09	232 19.6	314 34.6 S 23 14.8	265 39.4 S 15 08.3	106 03.1	160 00.9 N 21 49.5	246 03.2 S 8 01.6	348 10.3 S 25 55.9	55.4	Regulus	207 34.4	N 11 50.7
10	247 22.1	329 34.3 S 23 14.7	280 39.3 S 15 07.2	121 06.3	175 03.6 N 21 49.5	261 05.5 S 8 01.5	2 38.9 S 26 02.4	55.4			
11	262 24.5	344 34.0 S 23 14.6	295 39.1 S 15 06.2	136 09.5	190 06.4 N 21 49.4	276 07.8 S 8 01.5	17 07.4 S 26 08.7	55.5	Rigel	281 03.6	S 8 10.3
12	277 27.0	359 33.7 S 23 14.4	310 39.0 S 15 05.1	151 12.7	205 09.2 N 21 49.4	291 10.1 S 8 01.4	31 35.7 S 26 15.0	55.5	Rigil Kent.	139 41.1	S 60 56.1
13	292 29.4	1									

U.T.	Ts	T SOLE	Dec	T VENERE	Dec	T MARTE	Dec	T GIOVE	Dec	T SATURNO	Dec	T LUNA	Dec	PAR	STELLE	2024	DICEMBRE	16
d h	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "
29 00	97 56.6	179 30.0	S 23 12.7	130 37.3	S 14 52.5	331 51.3	N 23 13.1	25 42.4	N 21 49.1	111 37.7	S 8 00.5	205 09.5	S 27 19.2	55.8	NOME	360 - AR	Dec.	
01	112 59.0	194 29.7	S 23 12.5	145 37.2	S 14 51.4	346 54.5	N 23 13.4	40 45.2	N 21 49.1	126 40.0	S 8 00.4	219 36.8	S 27 23.6	55.8	Acamar	315 11.5	S 40 12.4	
02	128 01.5	209 29.4	S 23 12.4	160 37.1	S 14 50.4	1 57.7	N 23 13.7	55 47.9	N 21 49.0	141 42.3	S 8 00.4	234 04.0	S 27 27.9	55.8	Achernar	335 19.9	S 57 06.8	
03	143 03.9	224 29.1	S 23 12.2	175 37.0	S 14 49.3	17 00.9	N 23 13.9	70 50.7	N 21 49.0	156 44.6	S 8 00.3	248 31.1	S 27 32.1	55.8	AcruX	173 00.4	S 63 13.9	
04	158 06.4	239 28.8	S 23 12.1	190 36.8	S 14 48.2	32 04.2	N 23 14.2	85 53.5	N 21 49.0	171 46.9	S 8 00.2	262 58.2	S 27 36.1	55.9	Adhara	255 05.6	S 29 00.2	
05	173 08.9	254 28.5	S 23 11.9	205 36.7	S 14 47.2	47 07.4	N 23 14.5	100 56.2	N 21 49.0	186 49.2	S 8 00.1	277 25.1	S 27 39.9	55.9	Aldebaran	290 39.3	N 16 33.6	
06	188 11.3	269 28.2	S 23 11.8	220 36.6	S 14 46.1	62 10.6	N 23 14.7	115 59.0	N 21 48.9	201 51.5	S 8 00.1	291 52.0	S 27 43.7	55.9				
07	203 13.8	284 27.9	S 23 11.6	235 36.4	S 14 45.1	77 13.9	N 23 15.0	131 01.8	N 21 48.9	216 53.8	S 8 00.0	306 18.9	S 27 47.2	55.9	Alioth	166 13.2	N 55 49.2	
08	218 16.3	299 27.6	S 23 11.5	250 36.3	S 14 44.0	92 17.1	N 23 15.3	146 04.5	N 21 48.9	231 56.1	S 7 59.9	320 45.6	S 27 50.6	55.9	Alkaid	152 52.3	N 49 11.1	
09	233 18.7	314 27.3	S 23 11.3	265 36.2	S 14 43.0	107 20.3	N 23 15.6	161 07.3	N 21 48.8	246 58.4	S 7 59.8	335 12.3	S 27 53.9	56.0	Alnair	27 33.2	S 46 50.6	
10	248 21.2	329 27.0	S 23 11.2	280 36.1	S 14 41.9	122 23.5	N 23 15.8	176 10.1	N 21 48.8	262 00.7	S 7 59.8	349 38.9	S 27 57.0	56.0	Alnilam	275 37.5	S 1 11.1	
11	263 23.7	344 26.7	S 23 11.0	295 36.0	S 14 40.8	137 26.8	N 23 16.1	191 12.8	N 21 48.8	277 03.0	S 7 59.7	4 05.5	S 28 00.0	56.0	Alphard	217 47.6	S 8 45.9	
12	278 26.1	359 26.4	S 23 10.9	310 35.8	S 14 39.8	152 30.0	N 23 16.4	206 15.6	N 21 48.8	292 05.3	S 7 59.6	18 32.0	S 28 02.8	56.0				
13	293 28.6	14 26.0	S 23 10.7	325 35.7	S 14 38.7	167 33.3	N 23 16.6	221 18.4	N 21 48.7	307 07.6	S 7 59.5	32 58.4	S 28 05.5	56.1	Alphecca	126 04.1	N 26 37.7	
14	308 31.1	29 25.7	S 23 10.5	340 35.6	S 14 37.6	182 36.5	N 23 16.9	236 21.1	N 21 48.7	322 09.9	S 7 59.5	47 24.8	S 28 07.9	56.1	Alpheratz	357 34.8	N 29 13.9	
15	323 33.5	44 25.4	S 23 10.4	355 35.5	S 14 36.6	197 39.7	N 23 17.2	251 23.9	N 21 48.7	337 12.2	S 7 59.4	61 51.1	S 28 10.3	56.1	Altair	62 00.3	N 8 56.1	
16	338 36.0	59 25.1	S 23 10.2	10 35.4	S 14 35.5	212 43.0	N 23 17.4	266 26.7	N 21 48.7	352 14.5	S 7 59.3	76 17.3	S 28 12.5	56.1	Ankaa	353 07.1	S 42 10.5	
17	353 38.4	74 24.8	S 23 10.0	25 35.2	S 14 34.5	227 46.2	N 23 17.7	281 29.4	N 21 48.6	7 16.8	S 7 59.2	90 43.5	S 28 14.5	56.2	Antares	112 16.3	S 26 29.2	
18	8 40.9	89 24.5	S 23 09.9	40 35.1	S 14 33.4	242 49.5	N 23 18.0	296 32.2	N 21 48.6	22 19.1	S 7 59.2	105 09.6	S 28 16.4	56.2				
19	23 43.4	104 24.2	S 23 09.7	55 35.0	S 14 32.3	257 52.7	N 23 18.3	311 34.9	N 21 48.6	37 21.4	S 7 59.1	119 35.7	S 28 18.1	56.2	Arcturus	145 48.2	N 19 03.1	
20	38 45.8	119 23.9	S 23 09.6	70 34.9	S 14 31.3	272 55.9	N 23 18.5	326 37.7	N 21 48.6	52 23.7	S 7 59.0	134 01.8	S 28 19.6	56.2	Atria	107 11.1	S 69 04.2	
21	53 48.3	134 23.6	S 23 09.4	85 34.8	S 14 30.2	287 59.2	N 23 18.8	341 40.5	N 21 48.5	67 26.0	S 7 58.9	148 27.7	S 28 21.0	56.3	Avior	234 14.3	S 59 35.1	
22	68 50.8	149 23.3	S 23 09.2	100 34.7	S 14 29.1	303 02.4	N 23 19.1	356 43.2	N 21 48.5	82 28.3	S 7 58.9	162 53.7	S 28 22.3	56.3	Bellatrix	278 22.6	N 6 22.4	
23	83 53.2	164 23.0	S 23 09.1	115 34.6	S 14 28.1	318 05.7	N 23 19.3	11 46.0	N 21 48.5	97 30.6	S 7 58.8	177 19.6	S 28 23.3	56.3	Betelgeuse	270 51.8	N 7 24.7	
30 00	98 55.7	179 22.7	S 23 08.9	130 34.5	S 14 27.0	333 08.9	N 23 19.6	26 48.8	N 21 48.5	112 32.9	S 7 58.7	191 45.4	S 28 24.2	56.3	Canopus	263 51.9	S 52 42.4	
01	113 58.2	194 22.4	S 23 08.7	145 34.3	S 14 25.9	348 12.2	N 23 19.9	41 51.5	N 21 48.4	127 35.2	S 7 58.6	206 11.2	S 28 25.0	56.4	Capella	280 21.5	N 46 01.4	
02	129 00.6	209 22.1	S 23 08.6	160 34.2	S 14 24.9	3 15.4	N 23 20.1	56 54.3	N 21 48.4	142 37.5	S 7 58.5	220 37.0	S 28 25.5	56.4	Castor	245 56.8	N 31 50.0	
03	144 03.1	224 21.8	S 23 08.4	175 34.1	S 14 23.8	18 18.7	N 23 20.4	71 57.0	N 21 48.4	157 39.8	S 7 58.5	235 02.7	S 28 26.0	56.4	Deneb	49 26.2	N 45 22.3	
04	159 05.6	239 21.5	S 23 08.2	190 34.0	S 14 22.7	33 22.0	N 23 20.7	86 59.8	N 21 48.4	172 42.1	S 7 58.4	249 28.4	S 28 26.2	56.4	Denebola	182 25.0	N 14 25.9	
05	174 08.0	254 21.2	S 23 08.0	205 33.9	S 14 21.6	48 25.2	N 23 21.0	102 02.6	N 21 48.3	187 44.4	S 7 58.3	263 54.1	S 28 26.3	56.4				
06	189 10.5	269 20.9	S 23 07.9	220 33.8	S 14 20.6	63 28.5	N 23 21.2	117 05.3	N 21 48.3	202 46.7	S 7 58.2	278 19.7	S 28 26.2	56.5	Diphda	348 47.3	S 17 51.1	
07	204 12.9	284 20.6	S 23 07.7	235 33.7	S 14 19.5	78 31.7	N 23 21.5	132 08.1	N 21 48.3	217 49.0	S 7 58.2	292 45.3	S 28 26.0	56.5	Dubhe	193 40.9	N 61 36.7	
08	219 15.4	299 20.3	S 23 07.5	250 33.6	S 14 18.4	93 35.0	N 23 21.8	147 10.8	N 21 48.3	232 51.3	S 7 58.1	307 10.8	S 28 25.5	56.5	Elnath	278 01.6	N 28 37.7	
09	234 17.9	314 20.0	S 23 07.3	265 33.5	S 14 17.4	108 38.2	N 23 22.0	162 13.6	N 21 48.2	247 53.6	S 7 58.0	321 36.4	S 28 25.0	56.5	Etamin	90 42.8	N 51 29.1	
10	249 20.3	329 19.7	S 23 07.2	280 33.4	S 14 16.3	123 41.5	N 23 22.3	177 16.4	N 21 48.2	262 55.9	S 7 57.9	336 01.9	S 28 24.2	56.6	Enif	33 39.0	N 9 59.4	
11	264 22.8	344 19.4	S 23 07.0	295 33.3	S 14 15.2	138 44.8	N 23 22.6	192 19.1	N 21 48.2	277 58.2	S 7 57.9	350 27.4	S 28 23.3	56.6				
12	279 25.3	359 19.1	S 23 06.8	310 33.2	S 14 14.1	153 48.0	N 23 22.9	207 21.9	N 21 48.1	293 00.4	S 7 57.8	4 52.9	S 28 22.2	56.6	Fomalhaut	15 14.6	S 29 29.6	
13	294 27.7	14 18.8	S 23 06.6	325 33.1	S 14 13.1	168 51.3	N 23 23.1	222 24.6	N 21 48.1	308 02.7	S 7 57.7	19 18.3	S 28 21.0	56.6	Gacrux	171 51.9	S 57 14.9	
14	309 30.2	29 18.5	S 23 06.5	340 33.0	S 14 12.0	183 54.6	N 23 23.4	237 27.4	N 21 48.1	323 05.0	S 7 57.6	33 43.7	S 28 19.5	56.7	Gienah	175 43.7	S 17 40.7	
15	324 32.7	44 18.2	S 23 06.3	355 32.9	S 14 10.9	198 57.8	N 23 23.7	252 30.2	N 21 48.1	338 07.3	S 7 57.6	48 09.2	S 28 17.9	56.7	Hadar	148 36.5	S 60 29.3	
16	339 35.1	59 17.9	S 23 06.1	10 32.8	S 14 09.8	214 01.1	N 23 24.0	267 32.9	N 21 48.0	353 09.6	S 7 57.5	62 34.6	S 28 16.2	56.7	Hamal	327 51.0	N 23 34.9	
17	354 37.6	74 17.6	S 23 05.9	25 32.7	S 14 08.8	229 04.4	N 23 24.2	282 35.7	N 21 48.0	8 11.9	S 7 57.4	77 00.0	S 28 14.3	56.7				
18	9 40.1	89 17.3	S 23 05.7	40 32.6	S 14 07.7	244 07.7	N 23 24.5	297 38.4	N 21 48.0	23 14.2	S 7 57.3	91 25.4	S 28 12.2	56.8	Kaus aust.	83 33.0	S 34 22.4	
19	24 42.5	104 17.0	S 23 05.5	55 32.5	S 14 06.6	259 10.9	N 23 24.8	312 41.2	N 21 48.0	38 16.5	S 7 57.3	105 50.8	S 28 09.9	56.8	Kochab	137 20.7	N 74 02.9	
20	39 45.0	119 16.7	S 23 05.4	70 32.5	S 14 05.5	274 14.2	N 23 25.0	327 43.9	N 21 47.9	53 18.8	S 7 57.2	120 16.1	S 28 07.5	56.8	Markab	13 30.0	N 15 20.5	
21	54 47.4	134 16.4	S 23 05.2	85 32.4	S 14 04.5	289 17.5	N 23 25.3	342 46.7	N 21 47.9	68 21.1	S 7 57.1	134 41.5	S 28 04.9	56.8	Menkar	314 05.9	N 4 11.3	
22	69 49.9	149 16.1	S 23 05.0	100 32.3	S 14 03.4	304 20.8	N 23 25.6	357 49.5	N 21 47.9	83 23.4	S 7 57.0	149 06.9	S 28 02.1	56.9	Menkent	147 58.0	S 36 29.4	
23	84 52.4	164 15.8	S 23 04.8	115 32.2	S 14 02.3	319 24.0	N 23 25.9	12 52.2	N 21 47.9	98 25.7	S 7 56.9	163 32.3	S 27 59.2	56.9				
31 00	99 54.8	179 15.5	S 23 04.6	130 32.1	S 14 01.2	334 27.3	N 23 26.1	27 55.0	N 21 47.8	113 28.0	S 7 56.9	177 57.7	S 27 56.1	56.9	Miaplacidus	221 37.8	S 69 48.9	
01	114 57.3	194 15.2	S 23 04.4	145 32.0	S 14 00.1	349 30.6	N 23 26.4	42 57.7	N 21 47.8	128 30.3	S							